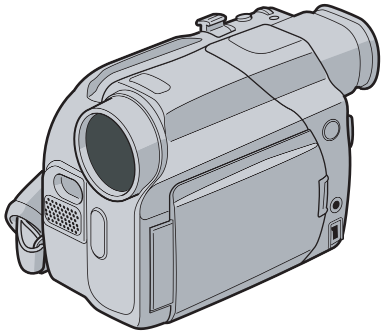
JVC

SERVICE MANUAL

DIGITAL VIDEO CAMERA

GR-D32US,GR-D71US,
GR-D72US,GR-D74US



Mini DV NTSC

DSC DIGITAL STILL CAMERA

GR-D32US[M4D1S3], GR-D71US,GR-D72US,GR-D74US[M4D1S7]

For disassembling and assembling of MECHANISM ASSEMBLY, refer to the SERVICE MANUAL No.86700 (MECHANISM ASSEMBLY).
Regarding service information other than these sections, refer to the service manual No. YF005 (GR-D73US).
Also, be sure to note important safety precautions provided in the service manual.

NOTE :

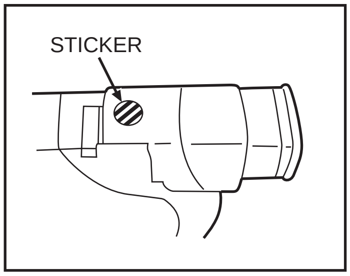
There are two types of VF(COLOR) ASSEMBLY used for this model: S type and K type.
Prior to repair operation related to VIEW FINDER, be sure to see the VF(COLOR) ASSEMBLY and Parts List.
Methods to distinguish the two types are as follows:

1. Distinction based on EEPROM DATA (EEPROM utility). (*1)
2. Distinction based on a part number of the MONI-C BOARD ASSEMBLY.
3. Distinction based on a sticker attached to the VF(COLOR) ASSEMBLY.

	S TYPE	K TYPE
EEPROM DATA (*1)	ADRS 3CCH:01H	ADRS 3CCH:05H
MONI-C PWB	YB10447 SERIES	YB10453 SERIES
VF(COLOR) ASSY	NO STICKER	STICKER ON TOP FACE

(*1) It is necessary to confirm the original data (before repair work) of EEPROM.

VF(COLOR) ASSEMBLY



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No.YF018
2004/1

SPECIFICATION *(The specifications shown pertain specifically to the model GR-D74US)*

Camcorder

For General

Power supply
DC 11.0 V (Using AC Adapter)
DC 7.2 V (Using battery pack)
Power consumption
Approx. 3.3 W (LCD monitor off, viewfinder on)
Approx. 4.6 W (LCD monitor on, viewfinder off)
Approx. 8.6 W (Maximum)
Dimensions (W x H x D)
71 mm x 91 mm x 118 mm
(2-13/16" x 3-5/8" x 4-11/16") (with the LCD monitor closed and the viewfinder pushed back in)
Weight
Approx. 500 g (1.1 lbs)
(without cassette and battery)
Approx. 590 g (1.3 lbs)
(incl. cassette and battery)
Operating temperature
0°C to 40°C (32°F to 104°F)
Operating humidity
35% to 80%
Storage temperature
–20°C to 50°C (–4°F to 122°F)
Pickup
1/6" CCD
Lens
F 1.6, f = 2.7 mm to 43.2 mm, 16:1 power zoom lens
Filter diameter
ø30.5 mm
LCD monitor
2.37" diagonally measured, LCD panel/TFT active matrix system
Viewfinder
Electronic viewfinder with 0.24" color LCD
Speaker
Monaural
White LED Light
Effective distance: 1.5 m

For Digital Video Camera

Format
DV format (SD mode)
Signal format
NTSC standard
Recording/Playback format
Video: Digital component recording
Audio: PCM digital recording, 32 kHz 4-channel (12-bit), 48 kHz 2-channel (16-bit)
Cassette
Mini DV cassette
Tape speed
SP: 18.8 mm/s, LP: 12.5 mm/s
Maximum recording time (using 80 min. cassette)
SP: 80 min., LP: 120 min.

For Digital Still Camera

Storage media
SD Memory Card/MultiMediaCard
Compression system
Still image: JPEG (compatible)
File size
Still image:
2 modes (1024 x 768 pixels/640 x 480 pixels)
Picture quality
2 modes (FINE/STANDARD)
Approximate number of storable images
☞ pg. 18

For Connectors

S
S-Video input:
Y: 0.8 V to 1.2 V (p-p), 75 Ω, analog
C: 0.2 V to 0.4 V (p-p), 75 Ω, analog
S-Video output:
Y: 1.0 V (p-p), 75 Ω, analog
C: 0.29 V (p-p), 75 Ω, analog
AV
Video input: 0.8 V to 1.2 V (p-p), 75 Ω, analog
Video output: 1.0 V (p-p), 75 Ω, analog
Audio input: 300 mV (rms), 50 kΩ, analog, stereo
Audio output: 300 mV (rms), 1 kΩ, analog, stereo
DV
Input/output: 4-pin, IEEE 1394 compliant
USB
5-pin

AC Adapter

Power requirement
AC 110 V to 240 V∼, 50 Hz/60 Hz
Output
DC 11 V ⎓, 1 A

Specifications shown are for SP mode unless otherwise indicated. E & O.E. Design and specifications subject to change without notice.

DIFFERENT TABLE OF FEATURE

The following table indicate main different points between models GGR-D73US, GR-D32US, GR-D71US, GR-D72US and GR-D74US.

MODEL	GR-D73US	GR-D32US	GR-D71US	GR-D72US	GR-D74US
ANALOG INPUT	YES	NO	YES	YES	YES
REMOTE CONTROL	RM-V718U	NO	RM-V718U	RM-V718U	RM-V718U
BODY COLOR	Silver & Blue	Silver & S.Gray	Silver & S.Gray	Silver & Blue	Silver & S.Gray
USB CABLE	YES	NO	YES	YES	YES
MEMORY CARD	YES(MMC 8MB)	NO	NO	NO	YES(MMC 8MB)

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DIVISION OF JVC AMERICAS CORP.

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PARTS LIST

SAFETY PRECAUTION

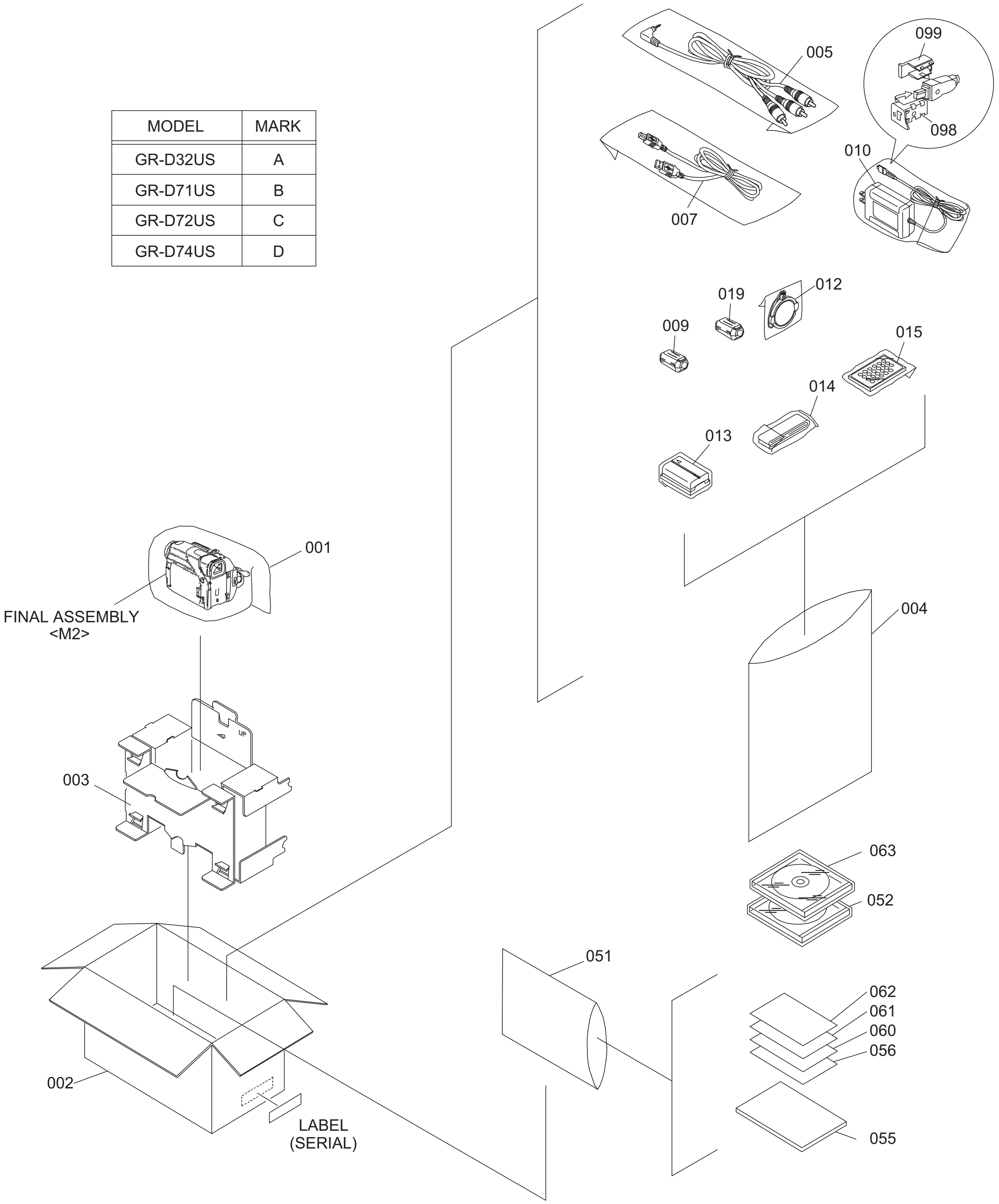
Parts identified by the ⚠ symbol are critical for safety. Replace only with specified part numbers.

1. EXPLODED VIEW

1.1 PACKING AND ACCESSORY ASSEMBLY <M1>

The instruction manual to be provided with this product will differ according to the destination.

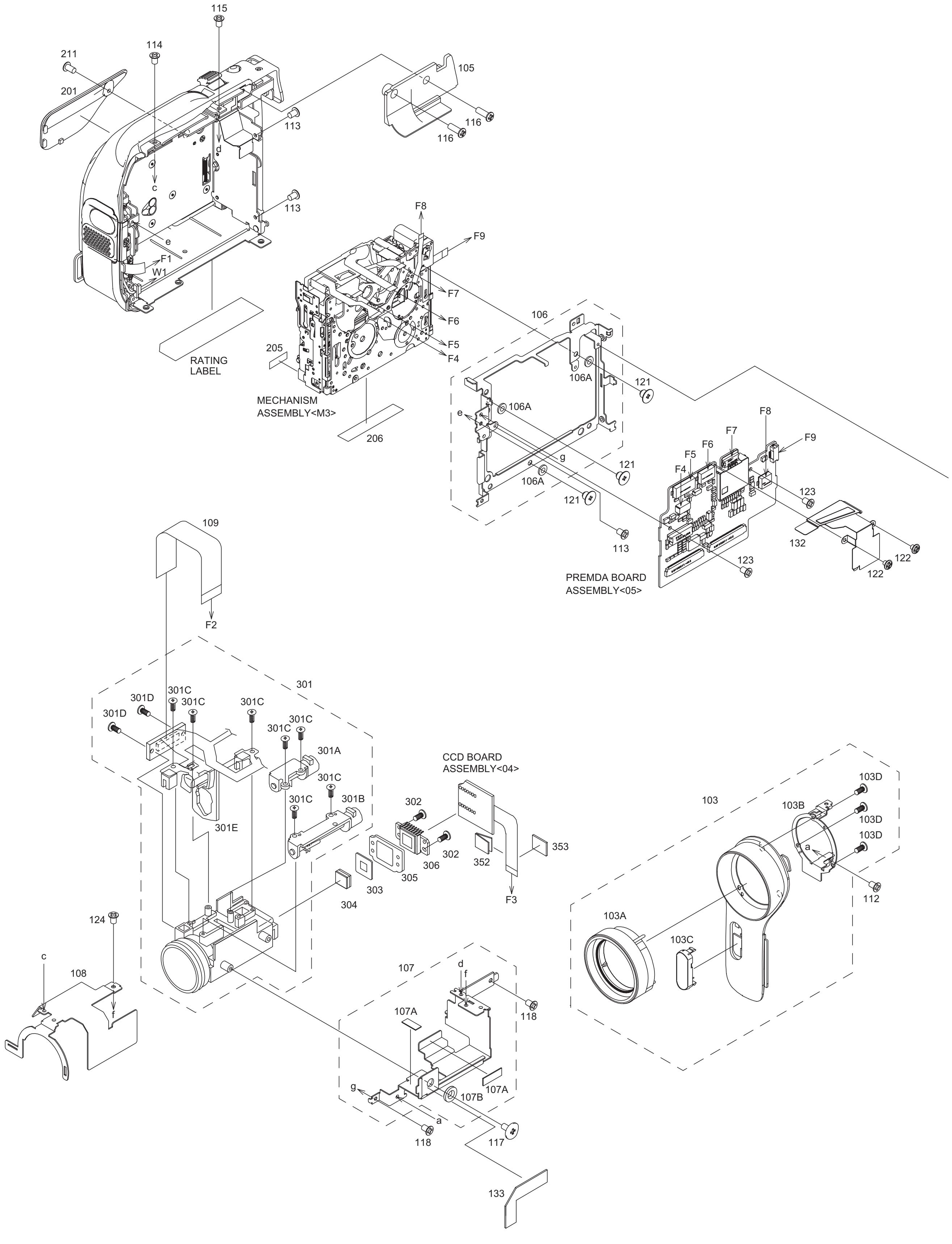
MODEL	MARK
GR-D32US	A
GR-D71US	B
GR-D72US	C
GR-D74US	D


005
099
098
010
007
019
012
009
015
014
013
001
FINAL ASSEMBLY
<M2>
004
003
063
052
051
062
061
060
056
002
055
LABEL
(SERIAL)

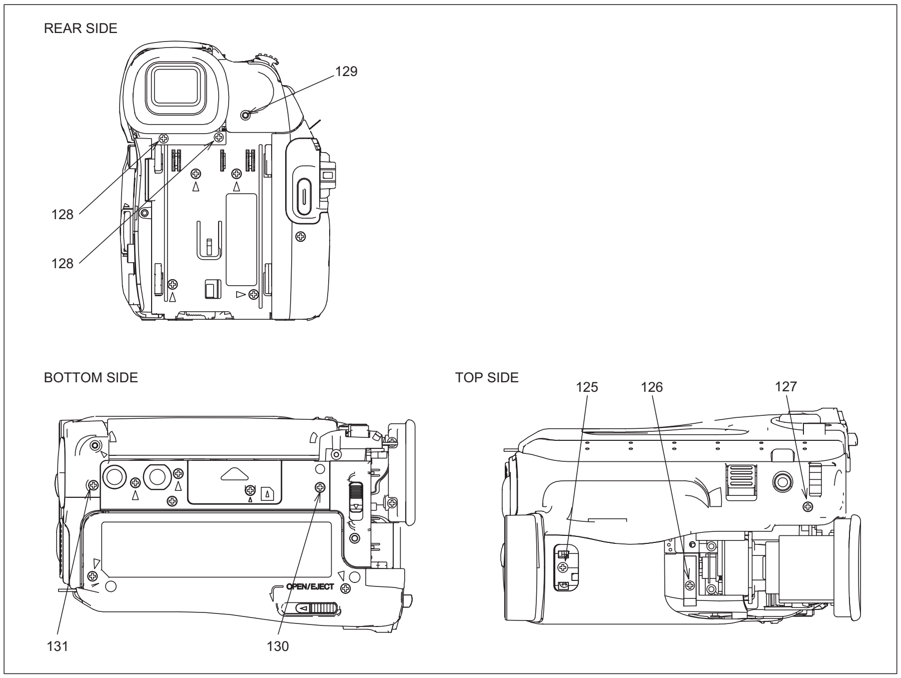
1.2 FINAL ASSEMBLY <M2>

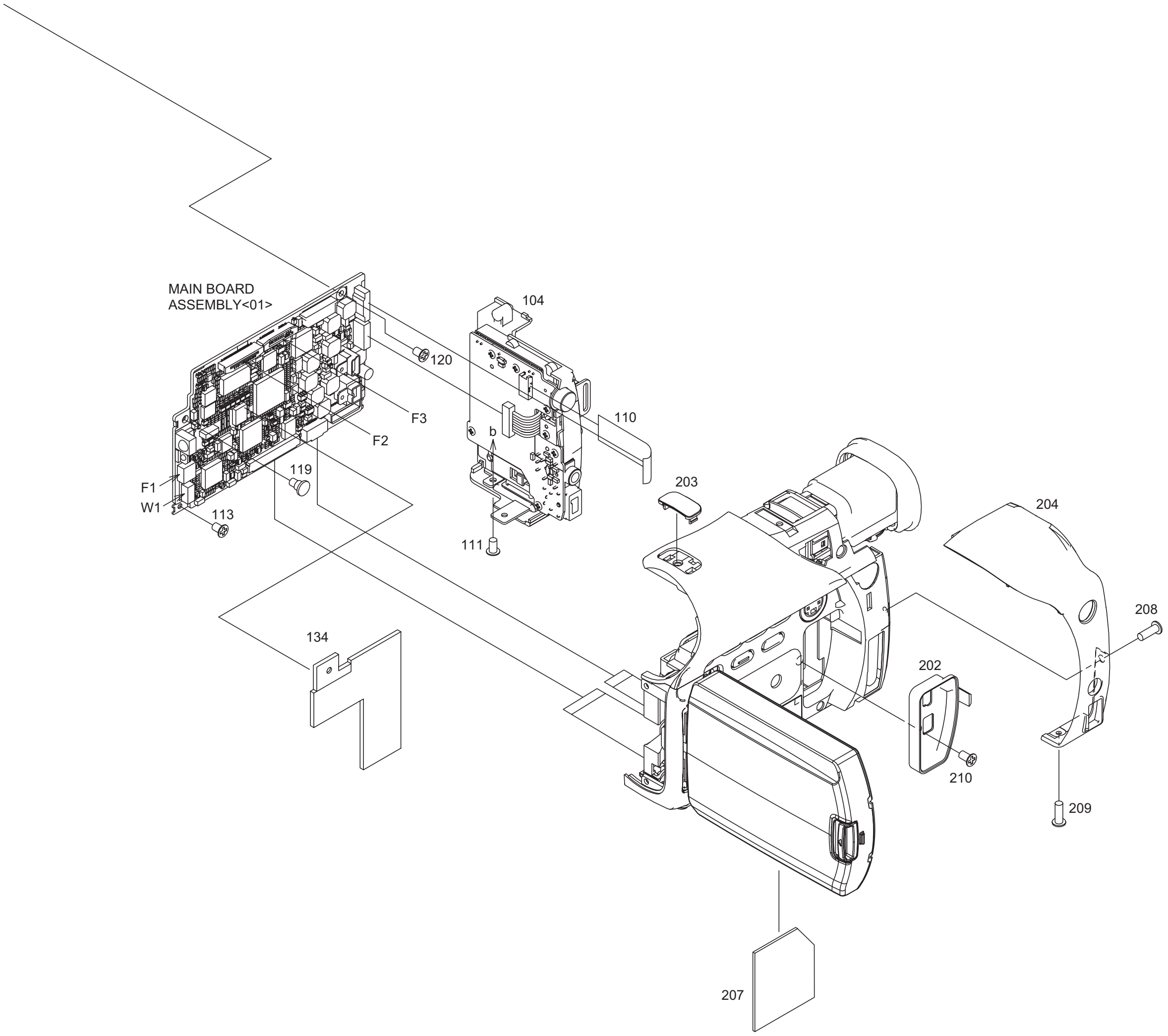
BEWARE OF BOGUS PARTS

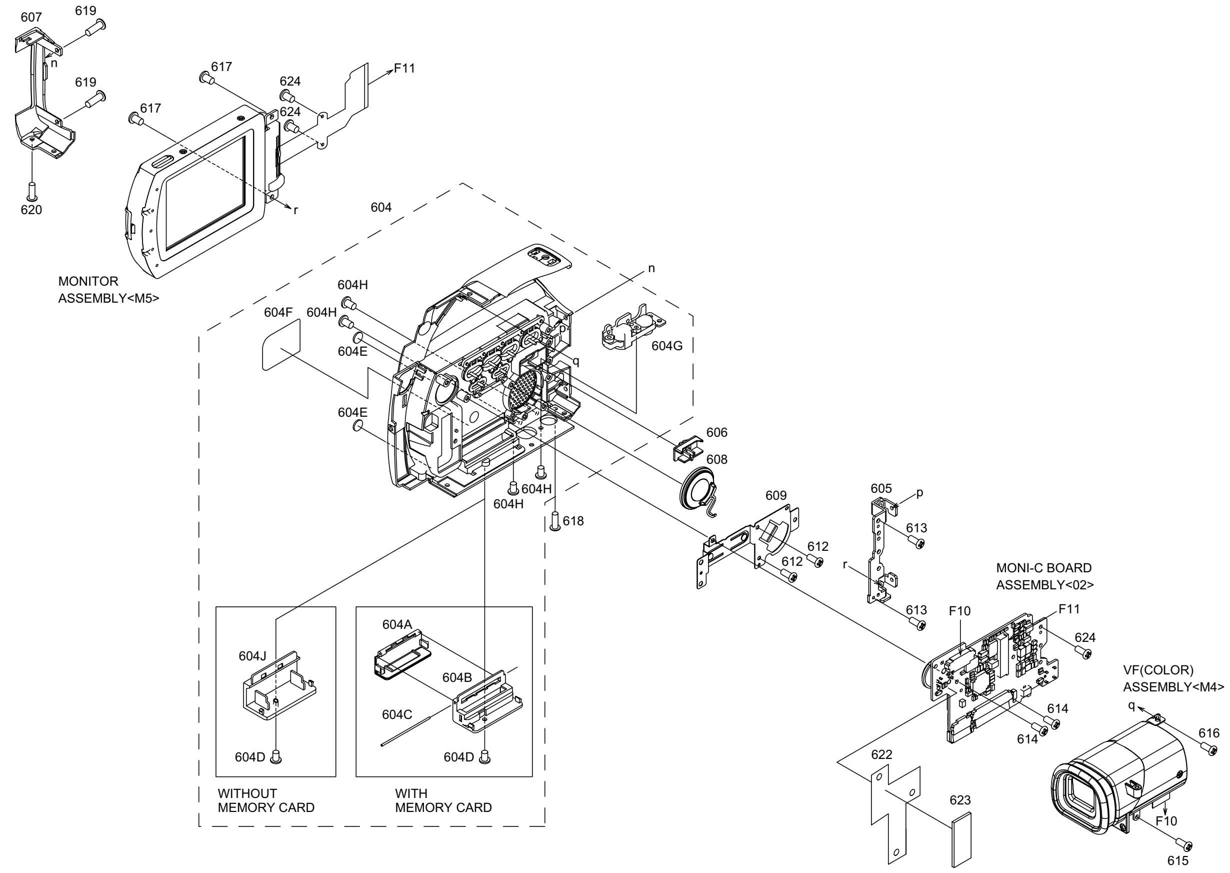
Parts that do not meet specifications may cause trouble in regard to safety and performance. We recommend that genuine JVC parts be used.



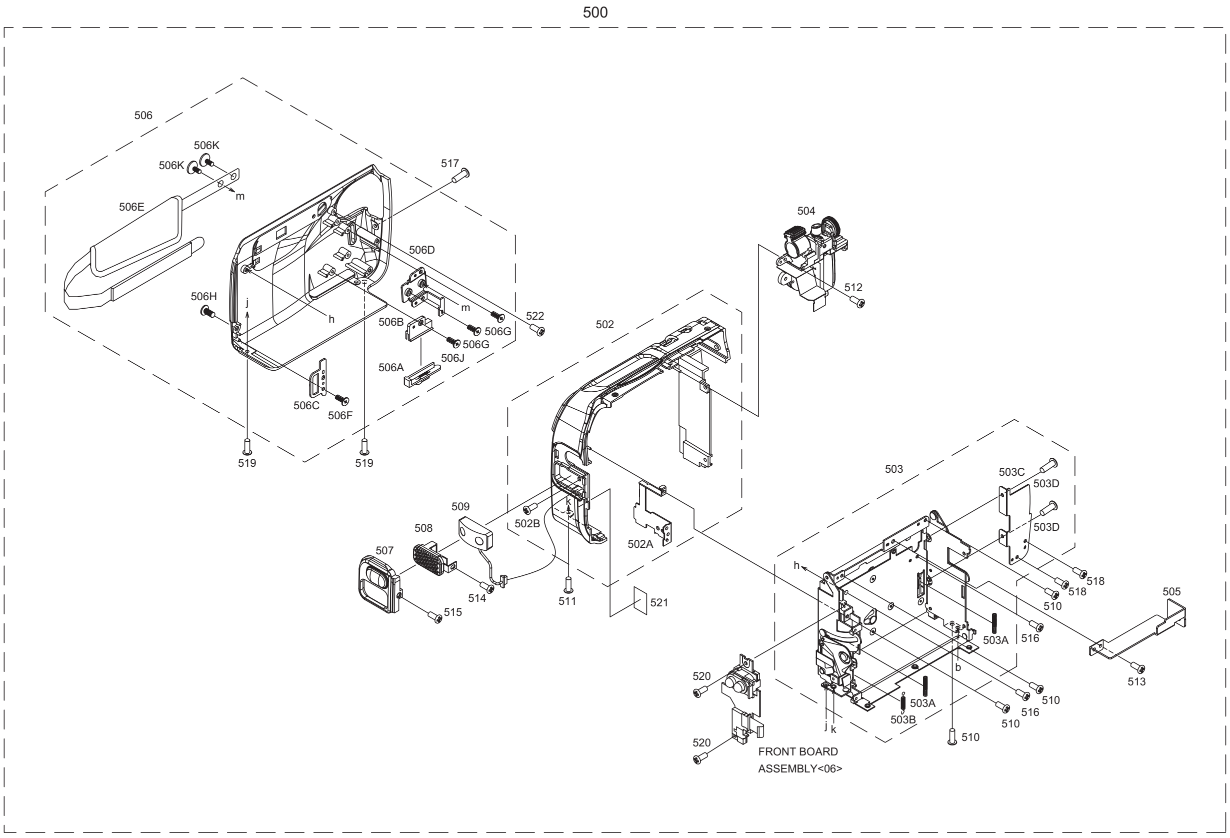
115
114
211
201
105
113
116
116
d
c
113
e
F1
W1
F8
F9
F7
F6
F5
F4
RATING
LABEL
205
MECHANISM
ASSEMBLY<M3>
206
106
106A
121
106A
e
g
121
106A
121
113
F8
F7
F6
F5
F4
F9
123
132
122
122
123
PREMDA BOARD
ASSEMBLY<05>
109
F2
301
301D
301C
301C
301C
301D
301C
301C
301A
301C
301C
301B
301E
CCD BOARD
ASSEMBLY<04>
302
302
306
305
303
304
352
353
F3
103
103B
103D
103D
103D
a
112
103A
103C
124
c
108
f
107
d
f
107A
118
107A
107B
g
a
118
117
133


REAR SIDE
BOTTOM SIDE
OPEN/EJECT
TOP SIDE


MAIN BOARD
ASSEMBLY<01>
F3
F2
b
F1
W1

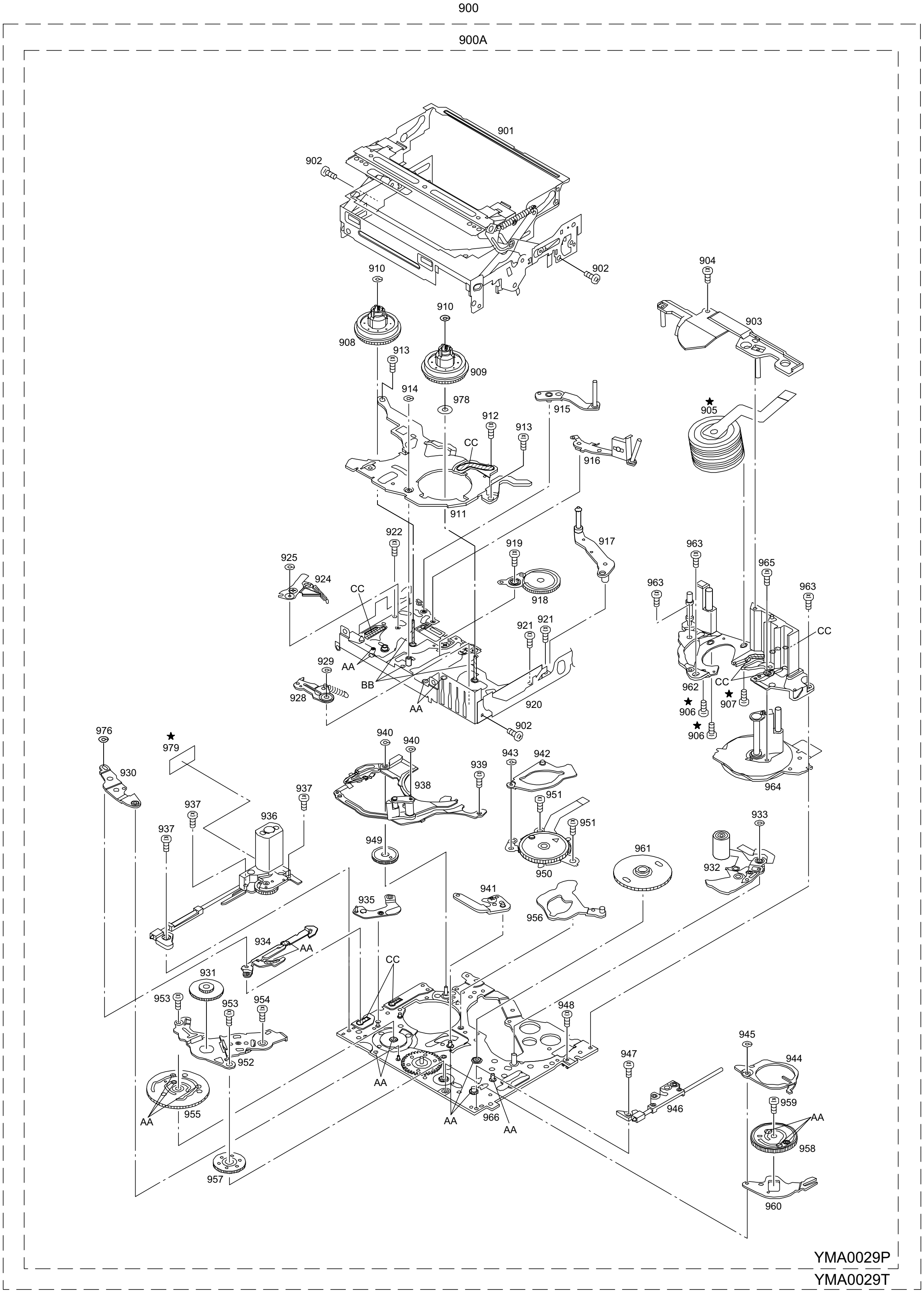


607
619
n
619
620
617
617
624
624
F11
r
MONITOR
ASSEMBLY<M5>
604
n
604H
604F
604H
604E
q
604G
604E
606
608
604H
604H
618
609
605
p
613
612
612
r
613
MONI-C BOARD
ASSEMBLY<02>
F10
F11
624
VF(COLOR)
ASSEMBLY<M4>
q
616
614
614
604A
604J
604B
604C
604D
604D
WITHOUT
MEMORY CARD
WITH
MEMORY CARD
622
623
F10
615



506K
506K
m
m
506H
j
h
506G
506G
506J
506F
k
h
b
j k
FRONT BOARD
ASSEMBLY<06>

1.3 MECHANISM ASSEMBLY <M3>

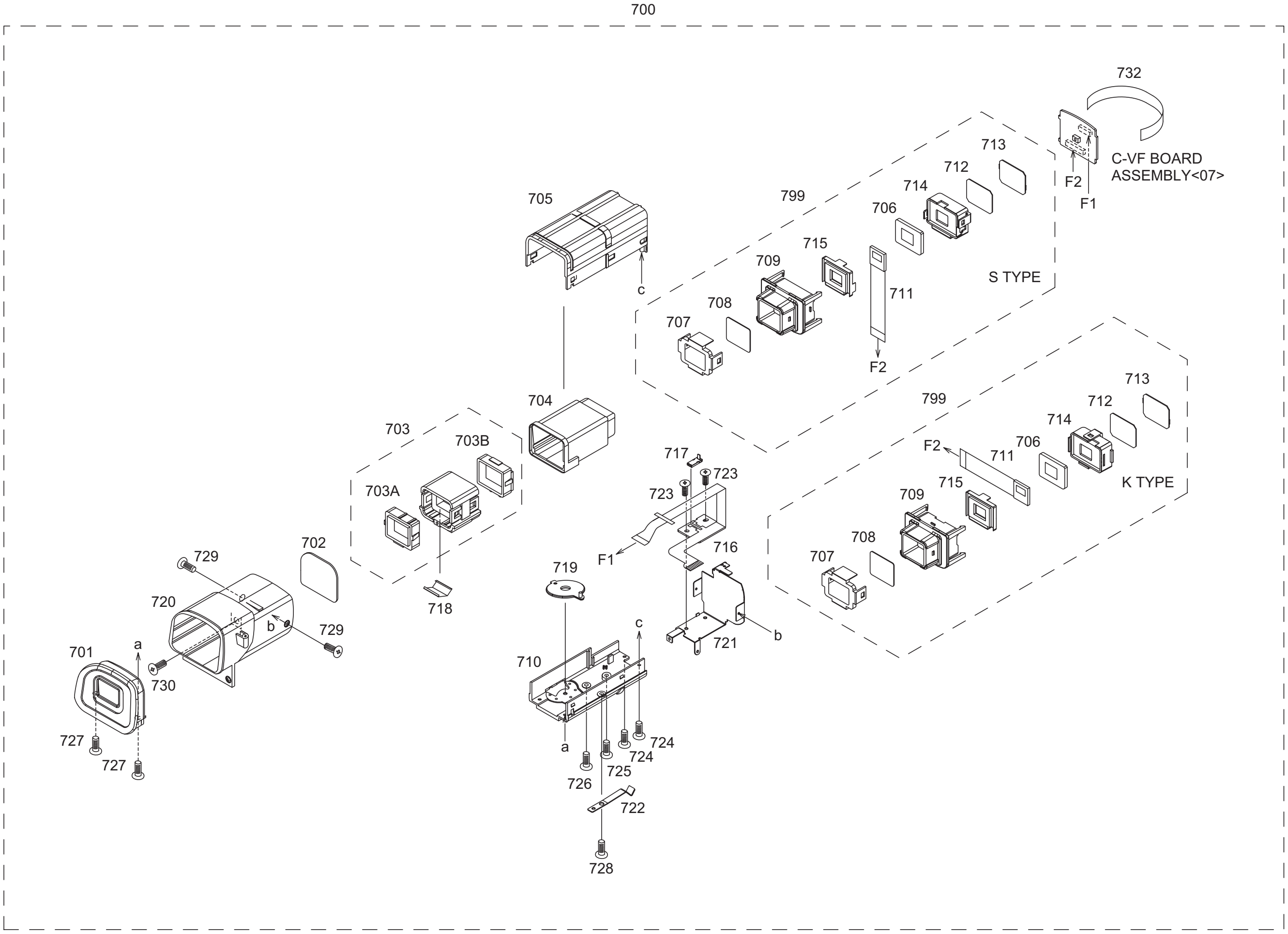

900
900A
901
902
902
910
904
910
903
908
913
909
914
978
915
912
913
CC
★
905
916
911
922
917
919
925
924
963
965
963
963
CC
918
921
921
CC
929
AA
BB
928
AA
920
962
CC
★
906
★
907
★
906
902
976
★
979
930
940
940
943
942
939
938
937
937
937
936
951
951
964
933
949
961
950
932
941
935
956
934
AA
CC
931
953
953
954
948
952
945
947
944
946
959
AA
955
AA
AA
966
AA
AA
958
957
960
YMA0029P
YMA0029T

Classification	Part No.	Symbol in drawing
Grease	KYODO-SH-JB	AA
Oil	YTU94027	BB
Grease (HANARL)	RX-410R	CC

NOTE1: The section marked in AA, BB and CC indicate lubrication and greasing areas.

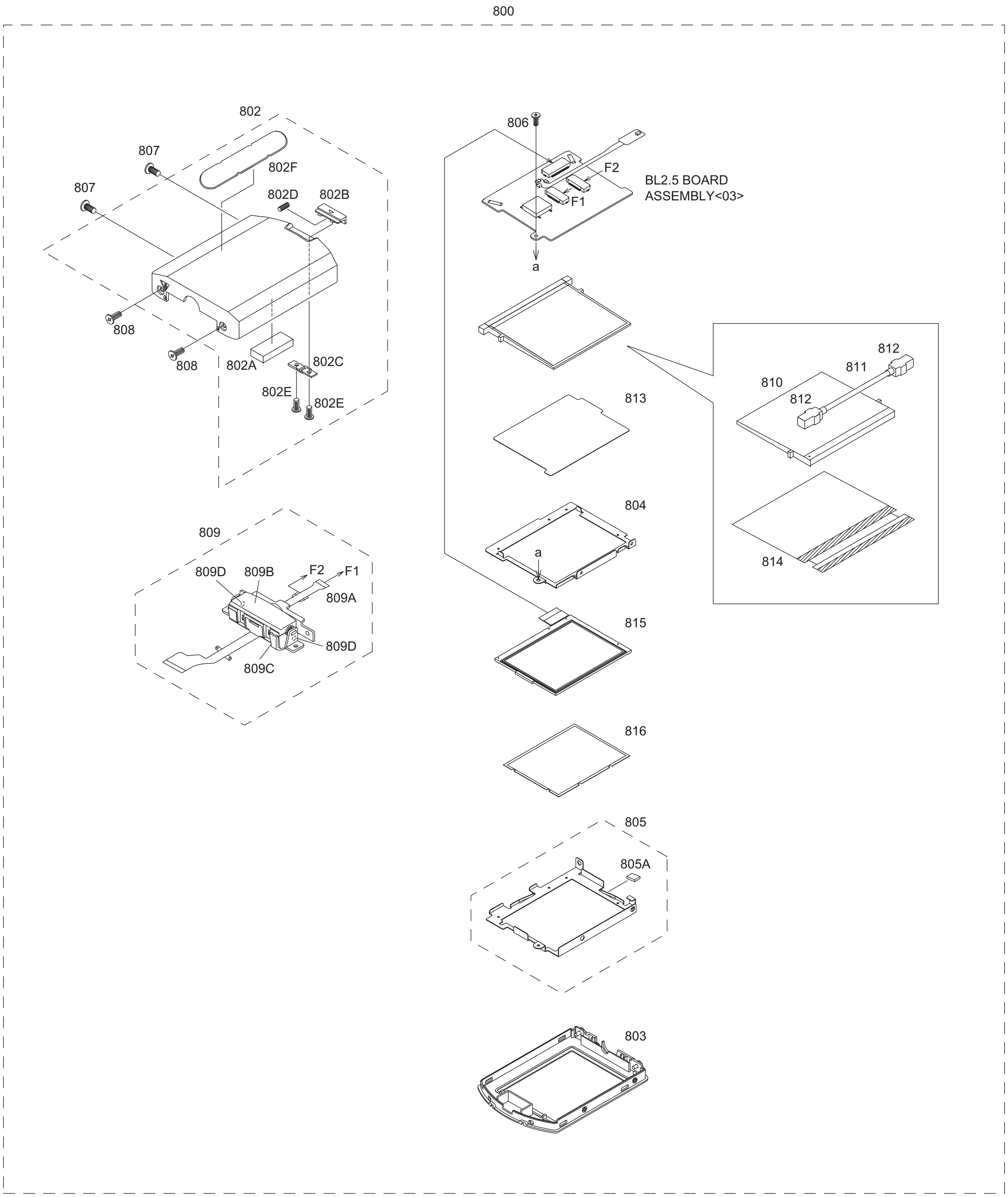
NOTE2: Mark ★ is not contained in 900A.

1.4 VF(COLOR) ASSEMBLY <M4>



700
732
C-VF BOARD
ASSEMBLY<07>
F2
F1
713
712
714
706
799
715
709
711
S TYPE
708
707
F2
705
c
704
703
703B
703A
702
718
799
713
712
714
706
F2
711
715
709
K TYPE
708
707
717
723
723
F1
716
719
721
b
c
710
a
726
725
724
724
722
728
729
720
b
729
701
a
730
727
727

1.5 MONITOR ASSEMBLY <M5>


800
802
807
802F
807
802D
802B
808
808
802A
802C
802E
802E
806
F2
F1
BL2.5 BOARD
ASSEMBLY<03>
a
812
811
810
812
813
804
a
814
809
809D
809B
F2
F1
809A
809D
809C
815
816
805
805A
803

MODEL	MARK	MODEL	MARK
GR-D32US	A	GR-D72US	C
GR-D71US	B	GR-D74US	D

2. PARTS LIST

PACKING AND ACCESSORY ASSY <M1>

⚠ Symbol No.	Part No.	Part Name	Description	Local
001	LY30023-029A	POLY BAG	JAPAN	
002	LY33696-001B	PACKING CASE	JAPAN	B,C,D
002	LY33696-002B	PACKING CASE	JAPAN	A
003	LY33697-001C	CUSHION		
004	QPA02503505P	POLY BAG	ACC. 25cm x 35cm	
005	QAM0507-001	A/V CABLE		
007	QAM0538-001	USB CABLE	USB	B,C,D
009	QQR0491-002	FERRITE CORE	S	
⚠ 010	LY21103-001A	AC ADAPTER	AP-V14U	
⚠ 010	or LY21154-001A	AC ADAPTER	AP-V15U	
012	LY33693-001C	CAP(HOOD)ASSY		
⚠ 013	LY32566-001A	BATTERY PACK ASSY	BN-V408U-B	
014	LY21105-002A	SHOULDER STRAP		
015	LY21020-001A	REMOCON	RM-V718U	B,C,D
019	QQR0491-002	FERRITE CORE	USB	B,C,D
051	QPA02003506	POLY BAG	DOCUMENT 20cm x 35cm	
052	LY32210-061A	CD ROM ASSY		A
052	LY32210-062A	CD ROM ASSY		B,C,D
⚠ 055	LYT1226-001A	INST BOOK(EN)	(ENGLISH)	C
⚠ 055	LYT1226-002A	INST BOOK(FR)	(FRENCH)	C
⚠ 055	LYT1226-003A	INST BOOK(SP)	(SPANISH)	C
⚠ 055	LYT1227-001A	INST BOOK(EN)	(ENGLISH)	D
⚠ 055	LYT1227-002A	INST BOOK(FR)	(FRENCH)	D
⚠ 055	LYT1227-003A	INST BOOK(SP)	(SPANISH)	D
⚠ 055	LYT1228-001A	INST BOOK(EN)	(ENGLISH)	A
⚠ 055	LYT1228-002A	INST BOOK(FR)	(FRENCH)	A
⚠ 055	LYT1228-003A	INST BOOK(SP)	(SPANISH)	A
⚠ 055	LYT1256-001A	INST BOOK(EN)	(ENGLISH)	B
⚠ 055	LYT1256-002A	INST BOOK(FR)	(FRENCH)	B
⚠ 055	LYT1256-003A	INST BOOK(SP)	(SPANISH)	B
056	LYT1197-001A	INST BOOK(SOFT.EN)	(SOFT.ENGLISH)	B,C,D
056	LYT1197-003A	INST BOOK(SOFT.FR)	(SOFT.FRENCH)	B,C,D
056	LYT1197-005A	INST BOOK(SOFT.SP)	(SOFT.SPANISH)	B,C,D
056	LYT1198-001A	INST BOOK(SOFT.EN)	(SOFT.ENGLISH)	A
056	LYT1198-003A	INST BOOK(SOFT.FR)	(SOFT.FRENCH)	A
056	LYT1198-005A	INST BOOK(SOFT.SP)	(SOFT.SPANISH)	A
060	BT-51005-6	WARRANTY INF.		
061	BT-51034-1	REGIST CARD		
062	BT-52006-2	WARRANTY CARD		
063	LY32210-043A	CD ROM ASSY		
098	LY34145-001B	COVER1(DC PLUG)		
099	LY34146-001B	COVER2(DC PLUG)		

FINAL ASSEMBLY <M2>

⚠ Symbol No.	Part No.	Part Name	Description	Local
103	LY21086-003C	FRONT COVER ASSY		
103A	LY33664-001A	HOOD(SCREW)		
103B	LY33665-001B	BRACKET(HOOD)		
103C	LY33666-001B	WINDOW(IR)		
103D	LY30031-003A	SPECIAL SCREW	BKT-SCREW(x3)	
⚠ 104	LY21088-001C	REAR UNIT ASSY		
105	LY33672-001C	COVER(ZOOM)		
106	LY33673-001B	BRACKET(MECHA)ASSY		
106A	LY42796-003A	BUSH	(x3)	
107	LY33674-001B	BRACKET(OP 1)ASSY		
107A	LY30030-0Y9A	SPACER(A)	(x2)	
107B	LY44376-001A	RUBBER(OP)		
108	LY33676-001B	BRACKET(OP 2)		
109	QUQ105-24X8AA	FPC WIRE	OP-MAIN FF	
110	QUQ105-1202AA	FFC WIRE	MAIN-R FFC	
111	LY30031-0E1A	SPECIAL SCREW	RC-BKARM	
112	LY30031-010A	SPECIAL SCREW	BKHO-BKOP	
113	LY30031-0D4A	SPECIAL SCREW	BKME-BKAR(x4)	
114	LY30031-010A	SPECIAL SCREW	LC-BKOP2	
115	LY30031-010A	SPECIAL SCREW	LC-BKOP1	
116	LY30031-003A	SPECIAL SCREW	HOLZ-LC(x2)	
117	LY30031-011A	SPECIAL SCREW	BKOP-OP	
118	LY30031-010A	SPECIAL SCREW	BKOP-BKME(x2)	
119	LY30032-001A	SPECIAL SCREW	MAIN-BKME	
120	LY30033-001A	SPECIAL SCREW(W)	MAIN-BKME	
121	LY30032-002A	SPECIAL SCREW	BKME-ME(x3)	
122	LY30031-015A	SPECIAL SCREW	PRE-ME(x2)	
123	LY30033-001A	SPECIAL SCREW(W)	MDA-BKME(x2)	
124	LY30031-010A	SPECIAL SCREW	OP1-OP2	
125	LY30031-010A	SPECIAL SCREW	UC-OP1	
126	LY30031-010A	SPECIAL SCREW	UC-OP2	
127	LY30031-021A	SPECIAL SCREW	LC-VF	
128	LY30031-021A	SPECIAL SCREW	VF-RC(x2)	
129	LY30031-028A	SPECIAL SCREW	LC-ZOOM	
130	LY30031-010A	SPECIAL SCREW	UC-BKSP	
131	LY30031-006A	SPECIAL SCREW	COVHI-BKSP	
132	LY33388-002A	SHIELD COVER(PR)		
133	LY44553-001A	SHEET(OP1)	EMC	A
134	LY44550-001A	SHEET(MA1)	EMC	A
201	LY33677-001C	COVER(ADJUST)		
202	LY33678-002B	COVER(JIG)		A
202	LY33678-001B	COVER(JIG)		B,C,D
203	LY33699-001A	ORNAMENT(TOP)		
204	LY21085-002B	COVER(UPPER)		C
204	LY21085-009B	COVER(UPPER)		A,B,D
205	LY40699-002A	LABEL(PUSH)		
206	LY32001-004A	LABEL(HOUSING)		
207	QAM0404-002	MEMORY CARD	MMC 8MB*	D
208	LY30031-008A	SPECIAL SCREW	COVUP-RC	
209	LY30031-008A	SPECIAL SCREW	COVUP-UC	
210	LY30031-010A	SPECIAL SCREW	JIG	
211	LY30031-032A	SPECIAL SCREW	ADJ	
301	LY33085-003A	OP BLOCK ASSY		
301A	LY30724-001B	FOCUS MOTOR UNIT		
301B	LY30723-001B	ZOOM MOTOR UNIT		
301C	PTY33085-001	TAPPING SCREW	(x7)	
301D	PTY31727-116	TAPPING SCREW	(x2)	
301E	PTY33085-006	AUTO IRIS UNIT		
302	LY30018-0E7A	SPECIAL SCREW	(x2)	
303	LY44005-001A	SHEET		
304	LY44120-001A	OPTICAL LPF		
305	LY33288-001A	SPACER		
306	LYH30514-001A	CCD BASE ASSY		
352	LY44554-001A	BUSTERAID	EMC	
353	LY30030-061A	SPACER(A)	EMC	

***NOTE:**
DATA FILE is not contained in MEMORY CARD of the service part.

UPPER ASSEMBLY <M2>

⚠ Symbol No.	Part No.	Part Name	Description	Local
⚠ 604	LY21084-006D	UPPER CASE ASSY		B,C,D
⚠ 604	LY21084-007D	UPPER CASE ASSY		A
604A	LY33662-001D	COVER(SD)		B,C,D
604B	LY33663-001C	HOLDER(SD)		B,C,D
604C	LY44374-001A	SHAFT(SD)		B,C,D
604D	LY30031-007A	SPECIAL SCREW	HOLDSD-UC	
604E	LY42350-003A	FOOT	(x2)	
604F	LY33657-002A	CAUTION LABEL(VF)		
604G	LY33658-001C	BASE		
604H	LY30031-006A	SPECIAL SCREW	UC-BASE(x4)	
604J	LY33656-001C	COVER(DUMMY)		A
605	LY33659-001C	BRACKET(HINGE)		
606	LY33679-001D	KNOB(SLIDE)	SW	B,C,D
607	LY33660-001B	COVER(HINGE)		
608	QAS0157-001	SPEAKER		
609	LY33661-001A	BRACKET(SPK)		
612	LY30031-003A	SPECIAL SCREW	BKTSPK-UC(x2)	
613	LY30031-003A	SPECIAL SCREW	BKTHIN-UC(x2)	
614	LY30031-008A	SPECIAL SCREW	M.PWB-UC(x2)	
615	LY30031-008A	SPECIAL SCREW	VF-UC	
616	LY30031-002A	SPECIAL SCREW	VF-UC	
617	LY30031-009A	SPECIAL SCREW	HIN-BKTHIN(x2)	
618	LY30031-006A	SPECIAL SCREW	UC-BKTHIN	
619	LY30031-006A	SPECIAL SCREW	COVHIN-BKT(x2)	
620	LY30031-002A	SPECIAL SCREW	COVHIN-UC	
622	LY44555-001A	SHEET(MO)	MONI_C PWB	

MODEL	MARK	MODEL	MARK
GR-D32US	A	GR-D72US	C
GR-D71US	B	GR-D74US	D

⚠ Symbol No.	Part No.	Part Name	Description	Local
623	LY30030-0Z3A	SPACER(A)		
624	LY30031-038A	SPECIAL SCREW	M.PCB-UC(x3)	

LOWER ASSEMBLY <M2>

⚠ Symbol No.	Part No.	Part Name	Description	Local
500	LU04D102E	LOWER UNIT ASSY		
502	LY21078-002C	LOWER CASE ASSY		
502A	LY33639-001A	SHIELD PLATE(MIC)		
502B	LY30031-016A	SPECIAL SCREW	LC-SHLD	
503	LY21079-001D	ARM ASSY		
503A	LY30002-046B	COMPRESION SPRING	(x2)	
503B	LY43973-001A	TENSION SPRING		
503C	LY33641-001A	BRACKET(REAR)		
503D	LY30031-001A	SPECIAL SCREW	BKTR-ARM(x2)	
504	LY10467-001A	ZOOM UNIT		
505	LY33642-001B	BRACKET(ZOOM)		
506	LY21082-002B	CASSETTE COVER ASSY		
506A	LY33643-001D	KNOB(LOCK)C		
506B	LY33644-001A	HOLDER(LOCK)C		
506C	LY33645-001C	HOOK(G.BELT)		
506D	LY33647-001B	BRACKET(G.BELT)		
506E	LY21083-002A	GRIP BELT		
506F	LY30031-002A	SPECIAL SCREW	C.COV-HOOK	
506G	QYSLSF2040RA	TAP SCREW	C.CO-BKT(G)(x2)	
506H	LY30031-029A	SPECIAL SCREW	C.CO-BKT(G)	
506J	LY30031-003A	SPECIAL SCREW	C.CO-KNOB	
506K	LY30031-004A	SPECIAL SCREW	BKT(GB-GB)(x2)	
507	LY33648-001C	COVER(MIC)ASSY		
508	LY33651-001A	PLATE(MIC)		
509	LY33965-001A	MIC		
510	LY30031-003A	SPECIAL SCREW	BKARM-L.C(x4)	
511	LY30031-0D9A	SPECIAL SCREW	LC-BKARM	
512	LY30031-003A	SPECIAL SCREW	ZOO-L.C	
513	LY30031-003A	SPECIAL SCREW	BKZO-LC	
514	LY30031-005A	SPECIAL SCREW	PLTM-SHLD	
515	LY30031-005A	SPECIAL SCREW	COVM-SHLD	
516	LY30031-037A	SPECIAL SCREW	ARM-CAS(x2)	
517	LY30031-021A	SPECIAL SCREW	POW-CAS	
518	LY30031-003A	SPECIAL SCREW	BKRE-CAS(x2)	
519	LY30031-0D8A	SPECIAL SCREW	CAS-ARM(x2)	
520	LY30031-0D9A	SPECIAL SCREW	FPWB-BKARM(x2)	
521	LY30030-0Y4A	SPACER(A)		
522	LY30031-003A	SPECIAL SCREW	POW-CAS	

MECHANISM ASSEMBLY <M3>

⚠ Symbol No.	Part No.	Part Name	Description	Local
900	YMA0029T	MECHA(A)ASSY	Y/E Y07442	
900A	YMA0029P	MECHA(A)ASSY	JVM/BJVC	
901	LY32870-001P	CASSETTEHOUSING ASSY		
902	YQ43893-8	MINI SCREW	(x3)	
903	LYH30420-001A	UPPER BASE ASSY		
904	QYSPSPU1425M	SCREW	M1.4 x 2.5mm	
905	YDV2102B	DRUM ASSY	M/B SET022	
906	LY42820-001A	DAMP.SCREW ASSY	JVM/BJVC(x2)	
907	LY42820-002A	DAMP.SCREW ASSY	JVM/BJVC	
908	LY31538-001F	REEL DISK ASSY		
909	LY31538-002H	REEL DISK ASSY		
910	YQ44246	SLIT WASHER	(x2)	
911	LY10372-001H	REEL COVER ASSY		
912	LY42120-002A	MINI SCREW		
913	LY41945-003A	MINI SCREW	(x2)	
914	YQ44246	SLIT WASHER		
915	LY43725-001F	TENSION ARM ASSY		
916	LYH40269-001A	SLANT POLE ARM ASSY		
917	LY43731-001F	TU ARM ASSY		
918	LY31531-001E	SWING ARM ASSY		
919	YQ43893-9	MINI SCREW		
920	LYH30424-001A	SLIDE DECK FINAL ASSY		
921	YQ43893	MINI SCREW	(x2)	
922	LY43023-001A	MINI SCREW		
924	LYH30419-001A	PAD ARM ASSY		
925	YQ44246	SLIT WASHER		
928	LYH40270-001A	TU BRAKE ASSY		
929	YQ44246	SLIT WASHER		
930	LY43684-001B	TENSION CONTROL LEVER ASSY		
931	LY32861-001A	CENTER GEAR		
932	LY31516-001H	PINCH ROLLER ARM FINAL ASSY		
933	YQ44246	SLIT WASHER		
934	LY43681-001A	TENSION CONTROL PLATE ASSY		
935	LY43687-001A	BRAKE CONTROL LEVER ASSY		
936	LYH30421-001A	MOTOR BRACKET ASSY		
937	YQ43893	MINI SCREW	(x3)	
938	LYH30422-001A	GUIDE RAIL ASSY		
939	YQ43893	MINI SCREW		
940	YQ44246	SLIT WASHER	(x2)	
941	LY32843-001D	SLIDE LEVER2 ASSY		
942	LY43690-001A	LOADING PLATE ASSY		
943	YQ44246	SLIT WASHER		
944	LY32858-001B	EJECT LEVER		
945	YQ44246	SLIT WASHER		
946	LYH40271-001A	BASE R ASSY		
947	YQ43893	MINI SCREW		
948	LY41945-001B	MINI SCREW		
949	LY43665-001A	MODE GEAR		
950	QSW0876-004	ROTARY ENCODER		
951	YQ43893	MINI SCREW	(x2)	
952	LY32860-001D	GEAR COVER ASSY		
953	YQ43893	MINI SCREW	(x2)	
954	YQ43893-4	MINI SCREW		
955	LY43676-001A	MAIN CAM ASSY		
956	LY41941-001B	SLIDE ARM ASSY		
957	LY43678-001A	CONNECT GEAR 2		
958	LY43679-001B	SUB CAM ASSY		
959	LY42120-001A	MINI SCREW		
960	LY43692-001A	CONTROL ARM ASSY		
961	LY32859-001A	REEL GEAR 1		
962	LY31508-004D	DRUM BASE ASSY		
963	QYSPSPU1425M	MINI SCREW	(x3)	
964	QAR0142-001	CAPSTAN MOTOR		
965	YQ43893	MINI SCREW		
966	LY10367-001K	MAIN DECK ASSY		
976	YQ44246	SLIT WASHER		
978	LY42047-005A	WASHER		
979	LY44502-001A	SPACER	JVM/BJVC	

VF(COLOR) ASSEMBLY <M4> [S TYPE]

NOTE :

There are two types of VF(COLOR) ASSEMBLY used for this model: S type and K type.
For methods to distinguish the two types, see Cover Page.

⚠ Symbol No.	Part No.	Part Name	Description	Local
700	VU04D101C	VF UNIT ASSY		
701	LY33690-001C	EYE CUP		
702	LY43961-001B	SHEET(LENS)		
703	LY32472-001A	LENS ASSY		
703A	LY43356-001A	LENS(A)		
703B	LY43357-001A	LENS(B)		
704	LY33688-001A	GUIDE LENS(VF)		
705	LY21095-001C	UPPER CASE(VF)		
706	LY43960-001A	CUSHION 2(LCD)		
707	LY32997-001A	SHEET HOLD(VF)		
708	LY43953-001A	SHEET 1(POLA)		
709	LY33003-001C	HOLDER LCD2(VF)		
710	LY21094-001C	BOTTOM CASE(VF)		
711	QLD0266-001	LCD MODULE		
712	LY43954-001A	SHEET 2(POLA)		
713	LY43959-001A	SHEET 2(DIFF)		
714	LY33004-001A	LCD HOLD 2(VF)		
715	LY33047-001A	GUIDE(LCD)2		
716	QAL0523-001	FPC	VF-FPC	
717	NSW0200-001X	LEVER SWITCH	TEZUKE	
718	LY43868-001A	SPRING(LENS)		

MODEL	MARK	MODEL	MARK
GR-D32US	A	GR-D72US	C
GR-D71US	B	GR-D74US	D

⚠ Symbol No.	Part No.	Part Name	Description	Local
719	LY33689-001C	LEVER(LENS)		
720	LY21096-001C	HOLDER(VF)		
721	LY33691-001A	BRACKET(VF)		
722	LY33692-001A	SPRING(VF)		
723	LY30031-016A	SPECIAL SCREW	PWB-BKT(x2)	
724	LY30031-031A	SPECIAL SCREW	BC-UC(x2)	
725	LY30031-030A	SPECIAL SCREW	BC-HLDLCD	
726	LY30031-031A	SPECIAL SCREW	BC-GUID	
727	LY30032-005A	SPECIAL SCREW	EYE-GUID(x2)	
728	LY30031-026A	SPECIAL SCREW	SPR-LC	
729	LY30031-016A	SPECIAL SCREW	HLDVF-BKT(x2)	
730	LY30031-010A	SPECIAL SCREW	HLDVF-BKT	
732	LY30030-0Y5A	SPACER(A)		
799	LY33722-001A	LCD UNIT(COLOR)ASSY		

VF(COLOR) ASSEMBLY <M4> [K TYPE]

NOTE :

There are two types of VF(COLOR) ASSEMBLY used for this model: S type and K type.

For methods to distinguish the two types, see Cover Page.

⚠ Symbol No.	Part No.	Part Name	Description	Local
700	VU04D102A	VF UNIT ASSY		
701	LY33690-001C	EYE CUP		
702	LY43961-001B	SHEET(LENS)		
703	LY32472-001A	LENS ASSY		
703A	LY43356-001A	LENS(A)		
703B	LY43357-001A	LENS(B)		
704	LY33688-001B	GUIDE LENS(VF)		
705	LY21095-001C	UPPER CASE(VF)		
706	LY43957-001A	CUSHION(LCD)		
707	LY32997-001A	SHEET HOLD(VF)		
708	LY43953-001A	SHEET 1(POLA)		
709	LY32994-001B	HOLDER LCD(VF)		
710	LY21094-001D	BOTTOM CASE(VF)		
711	QLD0306-001	LCD MODULE		
712	LY43954-001A	SHEET 2(POLA)		
713	LY43955-001A	SHEET (DIFF)		
714	LY32998-001A	LCD HOLD(VF)		
715	LY33002-001B	GUIDE(LCD)		
716	QAL0523-001	FPC	VF-FPC	
717	NSW0200-001X	LEVER SWITCH	TEZUKE	
718	LY43868-001A	SPRING(LENS)		
719	LY33689-001C	LEVER(LENS)		
720	LY21096-001C	HOLDER(VF)		
721	LY33691-001A	BRACKET(VF)		
722	LY33692-001A	SPRING(VF)		
723	LY30031-016A	SPECIAL SCREW	PWB-BKT(x2)	
724	LY30031-031A	SPECIAL SCREW	BC-UC(x2)	
725	LY30031-030A	SPECIAL SCREW	BC-HLDLCD	
726	LY30031-031A	SPECIAL SCREW	BC-GUID	
727	LY30032-005A	SPECIAL SCREW	EYE-GUID(x2)	
728	LY30031-026A	SPECIAL SCREW	SPR-LC	
729	LY30031-016A	SPECIAL SCREW	HLDVF-BKT(x2)	
730	LY30031-010A	SPECIAL SCREW	HLDVF-BKT	
732	LY30030-0Y5A	SPACER(A)		
799	LY33821-001A	LCD UNIT ASSY		

MONITOR ASSEMBLY <M5>

⚠ Symbol No.	Part No.	Part Name	Description	Local
⚠ 800	MU04D103E	MONITOR UNIT ASSY		B,C,D
⚠ 800	MU04D104E	MONITOR UNIT ASSY		A
⚠ 802	LY21092-003F	MONITOR COVER ASSY		B,C,D
⚠ 802	LY21092-004F	MONITOR COVER ASSY		A
802A	LY30030-0Z1B	SPACER(A)		
802B	LY33680-001B	KNOB(LOCK)M		
802C	LY33681-001B	HOLDER(LOCK)M		
802D	LY30002-022A	COMPRESION SPRING		
802E	LY30031-008A	SPECIAL SCREW	(x2)	
802F	LY44428-001C	POP STICKER(1)		
803	LY10471-001C	MONITOR CASE		
804	LY33683-001A	LCD FRAME(MONI)		
805	LY33969-001A	SHIELD CASE ASSY		
805A	LY30030-0Z8A	SPACER(A)	FOR S.CASE	
806	LY30033-001A	SPECIAL SCREW(W)	M.PWB-S.C	
807	LY30031-0E2A	SPECIAL SCREW	MCOV-MCAS(x2)	
808	LY30031-013A	SPECIAL SCREW	MCOV-HING(x2)	
809	LY33685-001B	MONITOR HINGE ASSY		
809A	QAL0522-001	FPC	MONI-FPC	
809B	LY33686-001B	HINGE COVER(U)		
809C	LY33687-001B	HINGE COVER(L)		
809D	LY30018-0K1A	SPECIAL SCREW	HINC.U-L(x2)	A
809D	LY30031-014A	SPECIAL SCREW	HINC.U-L(x2)	B,C,D
810	LY44481-001A	LIGHT SCREEN		
811	QLL0142-001	LAMP		
812	LY43936-001A	HOLDER(LAMP)	(x2)	
813	LY33684-001A	SHEET(DIFF.)		
814	LY43396-001A	SHEET(REFLECT)		
815	QLD0294-001	LCD MODULE		
816	LY44495-001D	SHEET(MONI.)		

MAIN BOARD ASSEMBLY <01>

⚠ Symbol No.	Part No.	Part Name	Description	Local
PW1	YB10449A-01	MAIN BOARD ASSY		A
PW1	YB10444C-02	MAIN BOARD ASSY		B,C,D
IC1001	MN103S33NJP	IC(MICRO C ROM)	MASK	
IC1001 or	MN103SF33NY4JP	IC(MICRO C ROM)	FLASH	
IC1002	MB90097PFV149-X	IC(MICRO C ROM)	MB90099	
IC1003	SN74AHC1G00K-X	IC		
IC1003 or	SN74AHC1G00DC-X	IC		
IC1004	NJU7108F3-X	IC		
IC1004 or	TC75S56FU-X	IC		
IC1005	X25330S8I-2.5-X	IC		
IC1005 or	AT25320N-10SI-X	IC	ATMEL	
IC1005 or	M95320-WMN6W-X	IC	ST MICRO	
IC1005 or	CAT25C32SI-X	IC	CATALYST	
IC1006	RS5C314-X	IC		
IC1007	IC-PST3423U-X	IC		
IC1007 or	S-80823CNNB-X	IC		
IC1101	BA10358F-XE	IC	W/B SENS	
IC1101 or	LM358DR-X	IC	W/B SENS	
IC1151	RPM7138	IR DETECT UNIT	IR SENS	
IC1151 or	RPM7138-S	IR DETECT UNIT	IR SENS	
IC2101	AK5355VT-X	IC		B,C,D
IC2201	AK4564VQ	IC		
IC3001	JCY0152	IC	JCY0152	
IC3002	BU2501FV-X	IC		
IC3005	JCY0136-X	IC	JCY0136-X	
IC3201	JCP8075	IC		
IC3701	BA7665AFS-X	IC		
IC3731	MM1504XN-X	IC	MM1504	B,C,D
IC4201	HD49340NP-X	IC		
IC4202	MM1613AN-X	IC		
IC4301	JCY0200	IC		
IC4802	LM324PW-X	IC	HALL AMP	
IC4804	LM358AD-X	IC	DRIVE AMP	
IC4804 or	LM358AD623-X	IC	DRIVE AMP	
IC4807	SN74AHC2G66U-X	IC	DUMP CUT	B,C,D
IC4851	UPD16879GS-X	IC	F/Z_MDA	
IC5501	JCY0185	IC		
IC6001	FA3698F	IC		
IC6801	R1224N102G-X	IC		
IC8001	TMS320DSC24GHKL	IC	DSC24	B,C,D
IC8002	K4S643232F-TC60	IC	SDRAM	B,C,D
IC8002 or	HY57643220CT55	IC	SDRAM	B,C,D
IC8002 or	HY57643220CT7	IC	SDRAM	B,C,D
IC8003	MR27T1602F14DTN	IC(MICRO C ROM)	WRITE ONCE	B,C,D
IC8004	S-80842CNNB-W	IC	USB DET	B,C,D
IC8006	BU2360FV-X	IC	A.VCO W	B,C,D
IC8301	ISP1181ABS	IC	USB DRV	B,C,D
Q1001	DTA114EE-X	DIGI TRANSISTOR		

MODEL	MARK	MODEL	MARK
GR-D32US	A	GR-D72US	C
GR-D71US	B	GR-D74US	D

⚠ Symbol No.		Part No.	Part Name	Description	Local
Q1001	or	PDTA114EE-X	DIGI TRANSISTOR		
Q1001	or	RN2102-X	DIGI TRANSISTOR		
Q1001	or	BCR183T-X	DIGI TRANSISTOR		
Q1002		UMC3N-W	DIGI TRANSISTOR		
Q1003		UMC3N-W	DIGI TRANSISTOR		
Q1004		UMC3N-W	DIGI TRANSISTOR		
Q1005		DTC143XE-X	DIGI TRANSISTOR		
Q1006		DTC144EE-X	DIGI TRANSISTOR		
Q1006	or	UN9213J-X	DIGI TRANSISTOR		
Q1006	or	RN1104-X	DIGI TRANSISTOR		
Q1006	or	PDTC144EE-X	DIGI TRANSISTOR		
Q1007		2SC4617/QR/-X	TRANSISTOR		
Q1007	or	BC847BT-X	TRANSISTOR		
Q1008		DTC124EE-X	DIGI TRANSISTOR		
Q1008	or	PDTC124EE-X	DIGI TRANSISTOR		
Q1008	or	BCR141T-X	DIGI TRANSISTOR		
Q1009		2SJ347-X	MOS FET		
Q1010		DTC144EE-X	DIGI TRANSISTOR		
Q1010	or	UN9213J-X	DIGI TRANSISTOR		
Q1010	or	RN1104-X	DIGI TRANSISTOR		
Q1010	or	PDTC144EE-X	DIGI TRANSISTOR		
Q1101		RPM-22PB	PHOTO TRANSISTOR		
Q2202		UMX1N-W	PAIR TRANSISTOR		
Q2202	or	BC847S-X	PAIR TRANSISTOR		
Q2401		2SC4617/QR/-X	TRANSISTOR		
Q2401	or	BC847BT-X	TRANSISTOR		
Q2403		2SC4617/QR/-X	TRANSISTOR		
Q2403	or	BC847BT-X	TRANSISTOR		
Q3001		2SC4617/RS/-X	TRANSISTOR		
Q3001	or	BC847BT-X	TRANSISTOR		
Q3002		2SC4617/RS/-X	TRANSISTOR		
Q3002	or	BC847BT-X	TRANSISTOR		
Q3701		UMT1N-W	PAIR TRANSISTOR		
Q3701	or	XP4401-W	TRANSISTOR		
Q3701	or	BC856S-X	PAIR TRANSISTOR		
Q3702		BC847PN-X	PAIR TRANSISTOR		
Q3704		2SA1774/RS/-X	TRANSISTOR		
Q3704	or	BC857BT-X	TRANSISTOR		
Q3705		UMT1N-W	PAIR TRANSISTOR		
Q3705	or	XP4401-W	TRANSISTOR		
Q3705	or	BC856S-X	PAIR TRANSISTOR		
Q3731		2SC4617/RS/-X	TRANSISTOR		B,C,D
Q3731	or	2SD2216J/RS/-X	TRANSISTOR		B,C,D
Q3731	or	BC847BT-X	TRANSISTOR		B,C,D
Q3732		DTC144EE-X	DIGI TRANSISTOR		B,C,D
Q3732	or	UN9213J-X	DIGI TRANSISTOR		B,C,D
Q3732	or	BCR148T-X	DIGI TRANSISTOR		B,C,D
Q3733		BC847PN-X	PAIR TRANSISTOR		B,C,D
Q3734		2SC4617/RS/-X	TRANSISTOR		B,C,D
Q3734	or	2SD2216J/RS/-X	TRANSISTOR		B,C,D
Q3734	or	BC847BT-X	TRANSISTOR		B,C,D
Q3735		BC847PN-X	PAIR TRANSISTOR		B,C,D
Q4801		2SC4655/BC/-X	TRANSISTOR	HALL DRIVE	
Q4802		2SC4617/RS/-X	TRANSISTOR	2SC4617/RS	B,C,D
Q4802	or	BC847BT-X	TRANSISTOR		B,C,D
Q4802	or	2SD2216J/RS/-X	TRANSISTOR		B,C,D
Q4803		DTC144EE-X	DIGI TRANSISTOR	DTC144EE	B,C,D
Q4803	or	BCR148T-X	DIGI TRANSISTOR		B,C,D
Q4804		DTA144EE-X	DIGI TRANSISTOR	DTA144EE	B,C,D
Q4804	or	BCR198T-X	DIGI TRANSISTOR		B,C,D
Q4805		DTA143EE-X	DIGI TRANSISTOR	DTA143EE	B,C,D
Q4805	or	BCR162T-X	DIGI TRANSISTOR		B,C,D
Q4806		2SC4617/QR/-X	TRANSISTOR	2SC4617/QR	
Q4806	or	BC847BT-X	TRANSISTOR		
Q4806	or	2SD2216J/RS/-X	TRANSISTOR	2SD2216J/R	B,C,D
Q4851		2SC4617/RS/-X	TRANSISTOR		
Q4851	or	BC847BT-X	TRANSISTOR		
Q6101		QS6U24-W	MOS FET		
Q6102		2SA1577/QR/-X	TRANSISTOR		
Q6102	or	BC807-25W-X	TRANSISTOR		
Q6201		QS6U24-W	MOS FET		
Q6301		QS6U24-W	MOS FET		
Q6302		2SA1577/QR/-X	TRANSISTOR		
Q6302	or	BC807-25W-X	TRANSISTOR		
Q6303		2SC4617/QR/-X	TRANSISTOR		
Q6303	or	BC847BT-X	TRANSISTOR		
Q6401		QS6U24-W	MOS FET		
Q6501		QS6U24-W	MOS FET		

⚠ Symbol No.		Part No.	Part Name	Description	Local
Q6601		SSM3J14T-X	MOS FET		
Q6603		2SA1577/QR/-X	TRANSISTOR		
Q6603	or	BC807-25W-X	TRANSISTOR		
Q6604		DTC144EE-X	DIGI TRANSISTOR		
Q6604	or	BCR148T-X	DIGI TRANSISTOR		
Q6605		UMT1N-W	PAIR TRANSISTOR		
Q6605	or	HN1A01FU/G/-X	PAIR TRANSISTOR		
Q6605	or	BC856S-X	PAIR TRANSISTOR		
Q6606		2SC4617/QR/-X	TRANSISTOR		
Q6606	or	BC847BT-X	TRANSISTOR		
Q6701		SSM3J14T-X	MOS FET		
Q6801		FML9-W	TRANSISTOR		
Q8002		2SA1774/QR/-X	TRANSISTOR	USB DET W	B,C,D
Q8002	or	BC857BT-X	TRANSISTOR		B,C,D
D1001		DA221-X	DIODE ARRAY		
D1001	or	MA133-X	SI DIODE		B,C,D
D3001		EC2C01C-TR-X	VARI CAP DIODE		
D3002		EC2C01C-TR-X	VARI CAP DIODE		
D3003		EC2C01C-TR-X	VARI CAP DIODE		
D3004		BAT165-X	SB DIODE		
D4301		MA2Z748-X	SB DIODE		
D5501		BAS16-03W-X	SI DIODE		
D6601		RB481K-X	SB DIODE		
D6602		RB480Y-W	SB DIODE		
D6701		RB160M-30-X	SB DIODE		
D6702		RB160M-30-X	SB DIODE		
⚠ D6801		RB715F-X	SB DIODE		
⚠ D6801	or	BAS40-05W-X	SB DIODE		
D8001		BAS170W-X	SB DIODE	USB DET	B,C,D
C1001		NDCA1HJ-4R0W	C CAPACITOR	4pF 50V J	
C1002		NDCA1HJ-4R0W	C CAPACITOR	4pF 50V J	
C1004		NCFA1AZ-104W	C CAPACITOR	0.1uF 10V Z	
C1005		NCFA1AZ-104W	C CAPACITOR	0.1uF 10V Z	
C1007		NCFA1AZ-104W	C CAPACITOR	0.1uF 10V Z	
C1008		NCFA1AZ-104W	C CAPACITOR	0.1uF 10V Z	
C1009		NCFA1AZ-104W	C CAPACITOR	0.1uF 10V Z	
C1010		NCFA1AZ-104W	C CAPACITOR	0.1uF 10V Z	
C1011		NCFA1AZ-104W	C CAPACITOR	0.1uF 10V Z	
C1012		NCFA1AZ-104W	C CAPACITOR	0.1uF 10V Z	
C1013		NCFA1AZ-104W	C CAPACITOR	0.1uF 10V Z	
C1014		NCFA1AZ-104W	C CAPACITOR	0.1uF 10V Z	
C1015		NCFA1AZ-104W	C CAPACITOR	0.1uF 10V Z	
C1019		NCFA1HZ-103W	C CAPACITOR	0.01uF 50V Z	
C1020		NCBA1EK-682W	C CAPACITOR	6800pF 25V K	
C1021		NCBA1EK-682W	C CAPACITOR	6800pF 25V K	
C1022		NCFA1HZ-103W	C CAPACITOR	0.01uF 50V Z	
C1024		NCFA1HZ-103W	C CAPACITOR	0.01uF 50V Z	
C1025		NCFA1HZ-103W	C CAPACITOR	0.01uF 50V Z	
C1029		NCFA1HZ-103W	C CAPACITOR	0.01uF 50V Z	
C1030		NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
C1032		NCFA1HZ-103W	C CAPACITOR	0.01uF 50V Z	
C1035		NCFA1HZ-103W	C CAPACITOR	0.01uF 50V Z	
C1036		NCFA1AZ-104W	C CAPACITOR	0.1uF 10V Z	
C1037		NCFA1HZ-103W	C CAPACITOR	0.01uF 50V Z	
C1038		NCFA1HZ-103W	C CAPACITOR	0.01uF 50V Z	
C1039		NCFA1HZ-103W	C CAPACITOR	0.01uF 50V Z	
C1040		NDCA1HJ-100W	C CAPACITOR	10pF 50V J	
C1041		NCFA1AZ-104W	C CAPACITOR	0.1uF 10V Z	
C1042		NCFA1AZ-104W	C CAPACITOR	0.1uF 10V Z	
C1043		NCFA1AZ-104W	C CAPACITOR	0.1uF 10V Z	
C1044		NDCA1HJ-470W	C CAPACITOR	47pF 50V J	
C1045		NDCA1HJ-470W	C CAPACITOR	47pF 50V J	
C1046		NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C1047		NCFA1HZ-103W	C CAPACITOR	0.01uF 50V Z	
C1048		NCFA1HZ-103W	C CAPACITOR	0.01uF 50V Z	
C1049		NCFA1HZ-103W	C CAPACITOR	0.01uF 50V Z	
C1050		NCFA1HZ-103W	C CAPACITOR	0.01uF 50V Z	
C1051		NCB31CK-223X	C CAPACITOR	0.022uF 16V K	
C1052		NCB31CK-223X	C CAPACITOR	0.022uF 16V K	
C1053		NCB31CK-223X	C CAPACITOR	0.022uF 16V K	
C1054		NCB31CK-223X	C CAPACITOR	0.022uF 16V K	
C1055		NCFA1AZ-104W	C CAPACITOR	0.1uF 10V Z	
C1064		NBE20JM-226X	TA E CAPACITOR	22uF 6.3V M	
C1102		NBE20JM-226X	TA E CAPACITOR	22uF 6.3V M	
C1103		NCBA1CK-223W	C CAPACITOR	0.022uF 16V K	
C1104		NCBA1CK-223W	C CAPACITOR	0.022uF 16V K	

MODEL	MARK	MODEL	MARK
GR-D32US	A	GR-D72US	C
GR-D71US	B	GR-D74US	D

⚠ Symbol No.	Part No.	Part Name	Description	Local
C1105	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
C1106	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C1107	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C2105	NCBA1HK-222W	C CAPACITOR	2200pF 50V K	B,C,D
C2106	NCBA1HK-222W	C CAPACITOR	2200pF 50V K	B,C,D
C2107	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	B,C,D
C2108	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	B,C,D
C2109	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	B,C,D
C2110	NBE20JM-475X	TA E CAPACITOR	4.7uF 6.3V M	B,C,D
C2201	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C2202	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C2203	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C2204	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C2205	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C2209	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C2210	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C2211	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	B,C,D
C2212	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	B,C,D
C2213	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C2214	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C2215	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C2216	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C2217	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C2218	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C2223	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C2224	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C2401	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
C2402	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
C2403	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
C2404	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
C2405	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C2406	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
C2603	NCBA1CK-223W	C CAPACITOR	0.022uF 16V K	
C2604	NCBA1CK-223W	C CAPACITOR	0.022uF 16V K	
C2605	NCBA1EK-472W	C CAPACITOR	4700pF 25V K	
C2606	NCBA1EK-472W	C CAPACITOR	4700pF 25V K	
C2607	NCBA1HK-102W	C CAPACITOR	1000pF 50V K	
C2608	NCBA1HK-102W	C CAPACITOR	1000pF 50V K	
C2611	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C2612	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C2613	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C2614	NDCA1HJ-101W	C CAPACITOR	100pF 50V J	
C2615	NDCA1HJ-101W	C CAPACITOR	100pF 50V J	
C3001	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
C3003	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C3005	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
C3006	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C3007	NBE20GM-476X	TA E CAPACITOR	47uF 4V M	
C3008	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
C3009	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C3011	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C3012	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C3013	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C3015	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C3016	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C3017	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C3020	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C3021	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C3022	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C3023	NDCA1HJ-330W	C CAPACITOR	33pF 50V J	
C3024	NCBA1HK-102W	C CAPACITOR	1000pF 50V K	
C3025	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C3026	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C3027	NCBA1EK-472W	C CAPACITOR	4700pF 25V K	
C3028	NDCA1EJ-271W	C CAPACITOR	270pF 25V J	
C3029	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C3030	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C3031	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C3032	NCBA1HK-102W	C CAPACITOR	1000pF 50V K	
C3033	NDCA1HJ-220W	C CAPACITOR	22pF 50V J	
C3036	NDCA1HJ-8R0W	C CAPACITOR	8pF 50V J	
C3037	NDCA1HJ-8R0W	C CAPACITOR	8pF 50V J	
C3038	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C3039	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C3042	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C3043	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C3044	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C3045	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C3046	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C3047	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C3048	NCB31CK-473X	C CAPACITOR	0.047uF 16V K	
C3049	NCBA1HK-222W	C CAPACITOR	2200pF 50V K	
C3050	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C3055	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C3059	NBE20GM-226X	TA E CAPACITOR	22uF 4V M	
C3060	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C3064	NCBA1HK-102W	C CAPACITOR	1000pF 50V K	
C3066	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C3067	NCBA1HK-102W	C CAPACITOR	1000pF 50V K	
C3069	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C3201	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
C3202	NCB21AK-105X	C CAPACITOR	1uF 10V K	
C3203	NCB21AK-105X	C CAPACITOR	1uF 10V K	
C3204	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
C3205	NBE20GM-476X	TA E CAPACITOR	47uF 4V M	
C3206	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C3207	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C3208	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C3209	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C3210	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C3211	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C3212	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C3213	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C3214	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C3215	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C3216	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C3217	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C3218	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C3219	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C3220	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C3221	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C3222	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C3223	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C3224	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C3225	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C3226	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C3227	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C3228	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C3229	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C3230	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C3231	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C3232	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C3233	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C3234	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C3235	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C3236	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C3237	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C3701	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	A
C3701	NCB10JK-106X	C CAPACITOR	10uF 6.3V K	B,C,D
C3702	NDCA1HJ-560W	C CAPACITOR	56pF 50V J	
C3703	NDCA1HJ-270W	C CAPACITOR	27pF 50V J	
C3704	NDCA1HJ-680W	C CAPACITOR	68pF 50V J	
C3705	NDCA1HJ-270W	C CAPACITOR	27pF 50V J	
C3706	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C3707	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C3708	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C3709	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C3712	NEAF0GM-337X	E CAPACITOR	330uF 4V M	
C3713	NEAF0GM-337X	E CAPACITOR	330uF 4V M	
C3715	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C3731	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	B,C,D
C3732	NCBA1HK-102W	C CAPACITOR	1000pF 50V K	B,C,D
C3733	NDCA1HJ-3R0W	C CAPACITOR	3pF 50V J	B,C,D
C3734	NDCA1HJ-5R0W	C CAPACITOR	5pF 50V J	B,C,D
C3735	NDCA1HJ-330W	C CAPACITOR	33pF 50V J	B,C,D
C3736	NCBA1HK-102W	C CAPACITOR	1000pF 50V K	B,C,D
C3738	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	B,C,D
C3739	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	B,C,D
C3740	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	B,C,D
C3741	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	B,C,D
C3742	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	B,C,D
C3743	NDCA1HJ-9R0W	C CAPACITOR	9pF 50V J	B,C,D
C3744	NDCA1HJ-150W	C CAPACITOR	15pF 50V J	B,C,D
C3745	NDCA1HJ-101W	C CAPACITOR	100pF 50V J	B,C,D
C3746	NCB20JM-475X	C CAPACITOR	4.7uF 6.3V M	B,C,D
C3747	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	B,C,D

MODEL	MARK	MODEL	MARK
GR-D32US	A	GR-D72US	C
GR-D71US	B	GR-D74US	D

⚠ Symbol No.	Part No.	Part Name	Description	Local
C4201	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
C4202	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C4203	NCB21AK-105X	C CAPACITOR	1uF 10V K	
C4204	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C4206	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C4207	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C4208	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C4209	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C4210	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C4211	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C4212	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C4213	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C4214	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C4216	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C4301	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C4302	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C4303	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C4304	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C4305	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C4306	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C4307	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C4308	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C4309	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C4310	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C4311	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C4312	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C4313	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
C4314	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C4316	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C4803	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
C4804	NCFA1AZ-104W	C CAPACITOR	0.1uF 10V Z	
C4806	NCFA1AZ-104W	C CAPACITOR	0.1uF 10V Z	
C4808	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C4809	NCFA1AZ-104W	C CAPACITOR	0.1uF 10V Z	
C4810	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C4811	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C4813	NCFA1AZ-104W	C CAPACITOR	0.1uF 10V Z	
C4814	NCFA1AZ-104W	C CAPACITOR	0.1uF 10V Z	
C4815	NCB31HK-152X	C CAPACITOR	1500pF 50V K	
C4819	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C4851	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
C4852	NCFA1AZ-104W	C CAPACITOR	0.1uF 10V Z	
C4853	NBE21AM-335X	TA E CAPACITOR	3.3uF 10V M	
C4854	NBE21AM-106X	TA E CAPACITOR	10uF 10V M	
C4855	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C4858	NDCA1HJ-330W	C CAPACITOR	33pF 50V J	
C4859	NCBA1CK-223W	C CAPACITOR	0.022uF 16V K	
C4860	NCBA1CK-223W	C CAPACITOR	0.022uF 16V K	
C4861	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C4862	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C4864	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
C4865	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C5501	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C5503	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C5504	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C5506	NBE40GM-476X	TA E CAPACITOR	47uF 4V M	
C5507	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C5508	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C5509	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C5510	NBP21VM-105X	TA E CAPACITOR	1uF 35V M	
C5511	NBP41EM-475X-B	TA E CAPACITOR	4.7uF 25V M	
C5512	NBE21AM-106X	TA E CAPACITOR	10uF 10V M	
C5513	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C5514	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C5515	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C5516	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C5517	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C5518	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C5519	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C6001	NCBA1HK-332W	C CAPACITOR	3300pF 50V K	
C6002	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C6003	NEAF1CM-106X	E CAPACITOR	10uF 16V M	A
C6003	NBP41VM-225X	TA E CAPACITOR	2.2uF 35V M	B,C,D
C6004	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C6021	NCB21CK-104X	C CAPACITOR	0.1uF 16V K	
C6022	NCB21CK-104X	C CAPACITOR	0.1uF 16V K	
C6023	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C6024	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C6025	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C6026	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C6027	NCBA1EK-472W	C CAPACITOR	4700pF 25V K	
C6029	NCBA1HK-102W	C CAPACITOR	1000pF 50V K	
C6030	NCBA1HK-102W	C CAPACITOR	1000pF 50V K	
C6031	NCBA1EK-472W	C CAPACITOR	4700pF 25V K	
C6032	NCBA1HK-102W	C CAPACITOR	1000pF 50V K	
C6033	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C6034	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C6035	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C6036	NDCA1HJ-101W	C CAPACITOR	100pF 50V J	
C6037	NCB21CK-473X	C CAPACITOR	0.047uF 16V K	
C6038	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C6039	NCB21CK-224X	C CAPACITOR	0.22uF 16V K	
C6040	NCB31CK-473X	C CAPACITOR	0.047uF 16V K	
C6041	NCB31CK-473X	C CAPACITOR	0.047uF 16V K	
C6042	NCB31CK-473X	C CAPACITOR	0.047uF 16V K	
C6043	NCB31CK-683X	C CAPACITOR	0.068uF 16V K	
C6044	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C6045	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C6101	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C6103	NCB10JK-106X	C CAPACITOR	10uF 6.3V K	
C6104	NCBA1HK-102W	C CAPACITOR	1000pF 50V K	
C6105	NCBA1HK-561W	C CAPACITOR	560pF 50V K	
C6106	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C6201	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C6203	NCB10JK-106X	C CAPACITOR	10uF 6.3V K	
C6204	NCBA1HK-102W	C CAPACITOR	1000pF 50V K	
C6301	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C6303	NCB10JK-106X	C CAPACITOR	10uF 6.3V K	
C6304	NCBA1HK-102W	C CAPACITOR	1000pF 50V K	
C6401	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C6403	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C6405	NCB31CK-683X	C CAPACITOR	0.068uF 16V K	
C6501	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C6503	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C6505	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C6601	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C6602	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C6603	NCB11EK-105X	C CAPACITOR	1uF 25V K	
C6605	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C6606	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C6607	NCB11EK-105X	C CAPACITOR	1uF 25V K	
C6608	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C6609	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C6610	NDCA1HJ-101W	C CAPACITOR	100pF 50V J	
C6701	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C6703	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C6801	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C6802	NBE40JM-476X	TA E CAPACITOR	47uF 6.3V M	
C6804	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C6807	NCB10JK-106X	C CAPACITOR	10uF 6.3V K	
C6809	NDCA1HJ-151W	C CAPACITOR	150pF 50V J	
C8001	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	B,C,D
C8002	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	B,C,D
C8003	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	B,C,D
C8004	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	B,C,D
C8005	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	B,C,D
C8006	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	B,C,D
C8007	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	B,C,D
C8008	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	B,C,D
C8010	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	B,C,D
C8011	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	B,C,D
C8014	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	B,C,D
C8015	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	B,C,D
C8016	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	B,C,D
C8017	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	B,C,D
C8018	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	B,C,D
C8019	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	B,C,D
C8020	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	B,C,D
C8021	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	B,C,D
C8022	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	B,C,D
C8023	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	B,C,D
C8025	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	B,C,D
C8026	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	B,C,D
C8030	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	B,C,D
C8031	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	B,C,D
C8301	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	B,C,D

MODEL	MARK	MODEL	MARK
GR-D32US	A	GR-D72US	C
GR-D71US	B	GR-D74US	D

⚠ Symbol No.	Part No.	Part Name	Description	Local
C8305	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	B,C,D
C8306	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	B,C,D
C8307	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	B,C,D
C8310	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	B,C,D
C8311	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	B,C,D
R1001	NRSA6AJ-105W	MG RESISTOR	1MΩ 1/16W J	
R1002	NRSA6AJ-104W	MG RESISTOR	100kΩ 1/16W J	
R1003	NRSA6AJ-104W	MG RESISTOR	100kΩ 1/16W J	
R1006	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
R1007	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	A
R1008	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	
R1009	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	
R1011	NRSA6AJ-104W	MG RESISTOR	100kΩ 1/16W J	
R1012	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
R1013	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
R1014	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
R1015	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
R1016	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	
R1017	NRSA6AJ-474W	MG RESISTOR	470kΩ 1/16W J	
R1018	NRSA6AJ-474W	MG RESISTOR	470kΩ 1/16W J	
R1019	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R1020	NRSA6AJ-104W	MG RESISTOR	100kΩ 1/16W J	
R1021	NRSA6AJ-104W	MG RESISTOR	100kΩ 1/16W J	
R1022	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
R1023	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
R1024	NRSA6AJ-104W	MG RESISTOR	100kΩ 1/16W J	
R1025	NRSA6AJ-104W	MG RESISTOR	100kΩ 1/16W J	
R1026	NRSA6AJ-473W	MG RESISTOR	47kΩ 1/16W J	
R1028	NRSA6AJ-473W	MG RESISTOR	47kΩ 1/16W J	A
R1030	NRSA6AJ-753W	MG RESISTOR	75kΩ 1/16W J	
R1031	NRSA6AJ-334W	MG RESISTOR	330kΩ 1/16W J	
R1032	NRSA6AJ-332W	MG RESISTOR	3.3kΩ 1/16W J	
R1033	NRSA6AJ-332W	MG RESISTOR	3.3kΩ 1/16W J	
R1034	NRSA6AJ-332W	MG RESISTOR	3.3kΩ 1/16W J	
R1035	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
R1037	NRSA6AJ-561W	MG RESISTOR	560Ω 1/16W J	A
R1037	NRSA6AJ-121W	MG RESISTOR	120Ω 1/16W J	B,C,D
R1038	NRSA6AJ-104W	MG RESISTOR	100kΩ 1/16W J	
R1039	NRSA6AJ-152W	MG RESISTOR	1.5kΩ 1/16W J	
R1040	NRSA6AJ-104W	MG RESISTOR	100kΩ 1/16W J	
R1043	NRSA6AJ-104W	MG RESISTOR	100kΩ 1/16W J	
R1044	NRSA6AJ-104W	MG RESISTOR	100kΩ 1/16W J	
R1045	NRSA6AJ-105W	MG RESISTOR	1MΩ 1/16W J	
R1046	NRSA6AJ-104W	MG RESISTOR	100kΩ 1/16W J	
R1047	NRSA6AJ-104W	MG RESISTOR	100kΩ 1/16W J	
R1048	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	
R1049	NRSA6AJ-623W	MG RESISTOR	62kΩ 1/16W J	
R1050	NRSA6AJ-823W	MG RESISTOR	82kΩ 1/16W J	
R1051	NRSA6AJ-473W	MG RESISTOR	47kΩ 1/16W J	
R1052	NRSA6AJ-104W	MG RESISTOR	100kΩ 1/16W J	
R1053	NRSA6AJ-222W	MG RESISTOR	2.2kΩ 1/16W J	
R1054	NRSA6AJ-104W	MG RESISTOR	100kΩ 1/16W J	
R1055	NRSA6AJ-334W	MG RESISTOR	330kΩ 1/16W J	
R1056	NRSA6AJ-334W	MG RESISTOR	330kΩ 1/16W J	
R1057	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
R1058	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
R1059	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
R1060	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	
R1062	NRSA6AJ-224W	MG RESISTOR	220kΩ 1/16W J	
R1063	NRSA6AJ-472W	MG RESISTOR	4.7kΩ 1/16W J	
R1064	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	
R1065	NRSA6AJ-153W	MG RESISTOR	15kΩ 1/16W J	
R1066	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	
R1067	NRSA6AJ-334W	MG RESISTOR	330kΩ 1/16W J	
R1068	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
R1069	NRSA6AJ-104W	MG RESISTOR	100kΩ 1/16W J	
R1070	NRSA6AJ-154W	MG RESISTOR	150kΩ 1/16W J	
R1071	NRSA6AJ-272W	MG RESISTOR	2.7kΩ 1/16W J	
R1072	NRSA6AJ-183W	MG RESISTOR	18kΩ 1/16W J	
R1073	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	
R1074	NRSA6AJ-472W	MG RESISTOR	4.7kΩ 1/16W J	
R1075	NRSA6AJ-473W	MG RESISTOR	47kΩ 1/16W J	
R1076	NRSA6AJ-473W	MG RESISTOR	47kΩ 1/16W J	
R1077	NRSA6AJ-104W	MG RESISTOR	100kΩ 1/16W J	
R1078	NRSA6AJ-393W	MG RESISTOR	39kΩ 1/16W J	
R1079	NRSA6AJ-223W	MG RESISTOR	22kΩ 1/16W J	
R1080	NRSA6AJ-822W	MG RESISTOR	8.2kΩ 1/16W J	
R1081	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	
R1082	NRSA6AJ-123W	MG RESISTOR	12kΩ 1/16W J	
R1083	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
R1084	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
R1085	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
R1086	NRSA6AJ-332W	MG RESISTOR	3.3kΩ 1/16W J	
R1087	NRSA6AJ-332W	MG RESISTOR	3.3kΩ 1/16W J	
R1088	NRSA6AJ-332W	MG RESISTOR	3.3kΩ 1/16W J	
R1089	NRSA6AJ-332W	MG RESISTOR	3.3kΩ 1/16W J	
R1091	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	
R1092	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	
R1093	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	
R1094	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	
R1095	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
R1096	NRSA6AJ-104W	MG RESISTOR	100kΩ 1/16W J	
R1097	NRSA6AJ-104W	MG RESISTOR	100kΩ 1/16W J	
R1099	NRSA6AJ-104W	MG RESISTOR	100kΩ 1/16W J	
R1101	NRSA6AJ-105W	MG RESISTOR	1MΩ 1/16W J	
R1102	NRSA6AJ-472W	MG RESISTOR	4.7kΩ 1/16W J	
R1103	NRSA6AJ-333W	MG RESISTOR	33kΩ 1/16W J	
R1104	NRSA6AJ-105W	MG RESISTOR	1MΩ 1/16W J	
R1105	NRSA6AJ-472W	MG RESISTOR	4.7kΩ 1/16W J	
R1106	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	
R1107	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	
R1108	NRSA6AJ-302W	MG RESISTOR	3kΩ 1/16W J	
R1151	NRSA6AJ-470W	MG RESISTOR	47Ω 1/16W J	
R2013	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R2014	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R2015	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R2016	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R2017	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R2018	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R2101	NRSA6AJ-471W	MG RESISTOR	470Ω 1/16W J	B,C,D
R2102	NRSA6AJ-471W	MG RESISTOR	470Ω 1/16W J	B,C,D
R2105	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	B,C,D
R2111	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	B,C,D
R2112	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	B,C,D
R2113	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	B,C,D
R2114	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	B,C,D
R2201	NRSA6AJ-684W	MG RESISTOR	680kΩ 1/16W J	
R2202	NRSA6AJ-564W	MG RESISTOR	560kΩ 1/16W J	
R2203	NRSA6AJ-393W	MG RESISTOR	39kΩ 1/16W J	
R2204	NRSA6AJ-154W	MG RESISTOR	150kΩ 1/16W J	
R2206	NRSA6AJ-333W	MG RESISTOR	33kΩ 1/16W J	
R2207	NRSA6AJ-333W	MG RESISTOR	33kΩ 1/16W J	
R2208	NRSA6AJ-223W	MG RESISTOR	22kΩ 1/16W J	
R2209	NRSA6AJ-223W	MG RESISTOR	22kΩ 1/16W J	
R2210	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R2211	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R2212	NRSA6AJ-2R7W	MG RESISTOR	2.7Ω 1/16W J	
R2213	NRSA6AJ-2R7W	MG RESISTOR	2.7Ω 1/16W J	
R2217	NRSA6AJ-100W	MG RESISTOR	10Ω 1/16W J	
R2218	NRSA6AJ-100W	MG RESISTOR	10Ω 1/16W J	
R2219	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R2220	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R2221	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R2222	NRSA6AJ-100W	MG RESISTOR	10Ω 1/16W J	
R2223	NRSA6AJ-100W	MG RESISTOR	10Ω 1/16W J	
R2224	NRSA6AJ-100W	MG RESISTOR	10Ω 1/16W J	
R2225	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R2226	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R2229	NRSA6AJ-564W	MG RESISTOR	560kΩ 1/16W J	
R2230	NRSA6AJ-564W	MG RESISTOR	560kΩ 1/16W J	
R2231	NRSA6AJ-332W	MG RESISTOR	3.3kΩ 1/16W J	
R2401	NRSA6AJ-472W	MG RESISTOR	4.7kΩ 1/16W J	
R2402	NRSA6AJ-472W	MG RESISTOR	4.7kΩ 1/16W J	
R2403	NRSA6AJ-183W	MG RESISTOR	18kΩ 1/16W J	
R2406	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R2407	NRSA6AJ-100W	MG RESISTOR	10Ω 1/16W J	
R2601	NRSA6AJ-182W	MG RESISTOR	1.8kΩ 1/16W J	
R2602	NRSA6AJ-182W	MG RESISTOR	1.8kΩ 1/16W J	
R2607	NRSA6AJ-223W	MG RESISTOR	22kΩ 1/16W J	
R2608	NRSA6AJ-223W	MG RESISTOR	22kΩ 1/16W J	
R2609	NRSA6AJ-224W	MG RESISTOR	220kΩ 1/16W J	
R2610	NRSA6AJ-224W	MG RESISTOR	220kΩ 1/16W J	
R3002	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	
R3004	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	
R3005	NRSA6AJ-100W	MG RESISTOR	10Ω 1/16W J	

MODEL	MARK	MODEL	MARK
GR-D32US	A	GR-D72US	C
GR-D71US	B	GR-D74US	D

⚠ Symbol No.	Part No.	Part Name	Description	Local
R3006	NRSA6AJ-100W	MG RESISTOR	10Ω 1/16W J	
R3007	NRSA6AJ-562W	MG RESISTOR	5.6kΩ 1/16W J	
R3008	NRSA6AJ-222W	MG RESISTOR	2.2kΩ 1/16W J	
R3009	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	
R3010	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	
R3011	NRSA6AJ-224W	MG RESISTOR	220kΩ 1/16W J	
R3013	NRSA6AJ-242W	MG RESISTOR	2.4kΩ 1/16W J	
R3014	NRSA6AJ-392W	MG RESISTOR	3.9kΩ 1/16W J	
R3015	NRSA6AJ-392W	MG RESISTOR	3.9kΩ 1/16W J	
R3016	NRVA6AD-560W	CMF RESISTOR	56Ω 1/16W D	
R3017	NRVA6AD-560W	CMF RESISTOR	56Ω 1/16W D	
R3018	NRVA6AD-560W	CMF RESISTOR	56Ω 1/16W D	
R3019	NRVA6AD-560W	CMF RESISTOR	56Ω 1/16W D	
R3020	NRVA6AD-512W	CMF RESISTOR	5.1kΩ 1/16W D	
R3021	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R3025	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
R3027	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	
R3029	NRSA6AJ-822W	MG RESISTOR	8.2kΩ 1/16W J	
R3030	NRSA6AJ-224W	MG RESISTOR	220kΩ 1/16W J	
R3031	NRSA6AJ-224W	MG RESISTOR	220kΩ 1/16W J	
R3032	NRSA6AJ-105W	MG RESISTOR	1MΩ 1/16W J	
R3034	NRSA6AJ-222W	MG RESISTOR	2.2kΩ 1/16W J	
R3036	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	
R3037	NRSA6AJ-681W	MG RESISTOR	680Ω 1/16W J	
R3057	NRSA6AJ-151W	MG RESISTOR	150Ω 1/16W J	
R3066	NRSA6AJ-561W	MG RESISTOR	560Ω 1/16W J	
R3067	NRSA6AJ-561W	MG RESISTOR	560Ω 1/16W J	
R3068	NRSA6AJ-181W	MG RESISTOR	180Ω 1/16W J	
R3069	NRSA6AJ-472W	MG RESISTOR	4.7kΩ 1/16W J	
R3071	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R3074	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	
R3077	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R3201	NRSA6AJ-101W	MG RESISTOR	100Ω 1/16W J	
R3202	NRSA6AD-183W	MG RESISTOR	18kΩ 1/16W D	
R3203	NRSA6AD-123W	MG RESISTOR	12kΩ 1/16W D	
R3204	NRSA6AD-821W	MG RESISTOR	820Ω 1/16W D	
R3205	NRSA6AD-821W	MG RESISTOR	820Ω 1/16W D	
R3207	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R3339	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3701	NRSA6AD-271W	MG RESISTOR	270Ω 1/16W D	
R3702	NRSA6AD-271W	MG RESISTOR	270Ω 1/16W D	
R3703	NRSA6AJ-332W	MG RESISTOR	3.3kΩ 1/16W J	
R3704	NRSA6AD-301W	MG RESISTOR	300Ω 1/16W D	
R3705	NRSA6AD-301W	MG RESISTOR	300Ω 1/16W D	
R3706	NRSA6AJ-332W	MG RESISTOR	3.3kΩ 1/16W J	
R3707	NRSA6AD-680W	MG RESISTOR	68Ω 1/16W D	
R3708	NRSA6AD-680W	MG RESISTOR	68Ω 1/16W D	
R3709	NRSA6AD-680W	MG RESISTOR	68Ω 1/16W D	
R3710	NRSA6AJ-104W	MG RESISTOR	100kΩ 1/16W J	
R3711	NRSA6AJ-104W	MG RESISTOR	100kΩ 1/16W J	
R3712	NRSA6AJ-105W	MG RESISTOR	1MΩ 1/16W J	
R3713	NRSA6AJ-104W	MG RESISTOR	100kΩ 1/16W J	
R3714	NRSA6AJ-823W	MG RESISTOR	82kΩ 1/16W J	
R3715	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	
R3722	NRSA6AD-131W	MG RESISTOR	130Ω 1/16W D	
R3724	NRSA6AJ-472W	MG RESISTOR	4.7kΩ 1/16W J	
R3725	NRSA6AD-131W	MG RESISTOR	130Ω 1/16W D	
R3726	NRSA6AJ-472W	MG RESISTOR	4.7kΩ 1/16W J	
R3727	NRSA6AJ-472W	MG RESISTOR	4.7kΩ 1/16W J	
R3728	NRSA6AD-131W	MG RESISTOR	130Ω 1/16W D	
R3730	NRSA6AJ-472W	MG RESISTOR	4.7kΩ 1/16W J	
R3731	NRSA6AJ-472W	MG RESISTOR	4.7kΩ 1/16W J	B,C,D
R3732	NRSA6AJ-101W	MG RESISTOR	100Ω 1/16W J	B,C,D
R3733	NRSA6AD-561W	MG RESISTOR	560Ω 1/16W D	B,C,D
R3734	NRSA6AJ-822W	MG RESISTOR	8.2kΩ 1/16W J	B,C,D
R3735	NRSA6AD-182W	MG RESISTOR	1.8kΩ 1/16W D	B,C,D
R3736	NRSA6AJ-183W	MG RESISTOR	18kΩ 1/16W J	B,C,D
R3737	NRSA6AJ-183W	MG RESISTOR	18kΩ 1/16W J	B,C,D
R3738	NRSA6AJ-681W	MG RESISTOR	680Ω 1/16W J	B,C,D
R3739	NRSA6AJ-821W	MG RESISTOR	820Ω 1/16W J	B,C,D
R3740	NRSA6AJ-821W	MG RESISTOR	820Ω 1/16W J	B,C,D
R3741	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	B,C,D
R3742	NRSA6AJ-104W	MG RESISTOR	100kΩ 1/16W J	B,C,D
R3743	NRSA6AJ-104W	MG RESISTOR	100kΩ 1/16W J	B,C,D
R3744	NRSA6AD-181W	MG RESISTOR	180Ω 1/16W D	B,C,D
R3745	NRSA6AD-471W	MG RESISTOR	470Ω 1/16W D	B,C,D
R3746	NRSA6AJ-222W	MG RESISTOR	2.2kΩ 1/16W J	B,C,D
R3747	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	B,C,D
R3748	NRSA6AJ-474W	MG RESISTOR	470kΩ 1/16W J	B,C,D
R4201	NRSA6AJ-333W	MG RESISTOR	33kΩ 1/16W J	
R4202	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R4203	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R4204	NRSA6AJ-220W	MG RESISTOR	22Ω 1/16W J	
R4301	NRSA6AJ-220W	MG RESISTOR	22Ω 1/16W J	
R4302	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R4304	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R4306	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R4307	NRSA6AJ-470W	MG RESISTOR	47Ω 1/16W J	B,C,D
R4308	NRSA6AJ-470W	MG RESISTOR	47Ω 1/16W J	
R4309	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R4310	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R4315	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R4317	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R4319	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R4326	NRSA6AJ-470W	MG RESISTOR	47Ω 1/16W J	
R4327	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R4328	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R4329	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R4330	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R4331	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R4332	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R4333	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R4334	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R4335	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	B,C,D
R4336	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	B,C,D
R4337	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	B,C,D
R4338	NRSA6AJ-220W	MG RESISTOR	22Ω 1/16W J	B,C,D
R4339	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R4341	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R4342	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R4343	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R4344	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R4345	NRSA6AJ-220W	MG RESISTOR	22Ω 1/16W J	
R4346	NRSA6AJ-220W	MG RESISTOR	22Ω 1/16W J	
R4354	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R4804	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
R4805	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	
R4806	NRSA6AJ-683W	MG RESISTOR	68kΩ 1/16W J	
R4807	NRSA6AJ-823W	MG RESISTOR	82kΩ 1/16W J	
R4808	NRSA6AJ-243W	MG RESISTOR	24kΩ 1/16W J	
R4809	NRSA6AJ-681W	MG RESISTOR	680Ω 1/16W J	
R4810	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	
R4811	NRSA6AJ-824W	MG RESISTOR	820kΩ 1/16W J	
R4812	NRSA6AJ-153W	MG RESISTOR	15kΩ 1/16W J	
R4814	NRSA6AJ-105W	MG RESISTOR	1MΩ 1/16W J	
R4815	NRSA6AJ-472W	MG RESISTOR	4.7kΩ 1/16W J	
R4816	NRSA6AJ-105W	MG RESISTOR	1MΩ 1/16W J	
R4817	NRSA6AJ-334W	MG RESISTOR	330kΩ 1/16W J	
R4818	NRSA6AJ-154W	MG RESISTOR	150kΩ 1/16W J	
R4819	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	
R4820	NRSA6AJ-104W	MG RESISTOR	100kΩ 1/16W J	
R4821	NRSA6AJ-104W	MG RESISTOR	100kΩ 1/16W J	
R4822	NRSA6AJ-333W	MG RESISTOR	33kΩ 1/16W J	
R4823	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
R4824	NRSA6AJ-472W	MG RESISTOR	4.7kΩ 1/16W J	
R4825	NRSA6AJ-222W	MG RESISTOR	2.2kΩ 1/16W J	B,C,D
R4826	NRSA6AJ-473W	MG RESISTOR	47kΩ 1/16W J	B,C,D
R4827	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R4828	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R4833	NRSA6AJ-104W	MG RESISTOR	100kΩ 1/16W J	
R4836	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
R4837	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	B,C,D
R4839	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	B,C,D
R4840	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	B,C,D
R4841	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	A
R4842	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	A
R4843	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R4844	NRSA6AJ-151W	MG RESISTOR	150Ω 1/16W J	
R4846	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	B,C,D
R4849	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	B,C,D
R4854	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R4856	NRSA6AJ-6R8W	MG RESISTOR	6.8Ω 1/16W J	
R4857	NRSA6AJ-6R8W	MG RESISTOR	6.8Ω 1/16W J	
R4858	NRSA6AJ-333W	MG RESISTOR	33kΩ 1/16W J	
R4859	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R4860	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	

MODEL	MARK	MODEL	MARK
GR-D32US	A	GR-D72US	C
GR-D71US	B	GR-D74US	D

⚠ Symbol No.	Part No.	Part Name	Description	Local
R4862	NRSA6AJ-6R8W	MG RESISTOR	6.8Ω 1/16W J	
R4863	NRSA6AJ-6R8W	MG RESISTOR	6.8Ω 1/16W J	
R4864	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
R4865	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
R4866	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
R4867	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
R4868	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R4870	NRSA6AJ-271W	MG RESISTOR	270Ω 1/16W J	
R4871	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R4874	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R5501	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R5503	NRSA6AJ-220W	MG RESISTOR	22Ω 1/16W J	
R5504	NRSA6AJ-220W	MG RESISTOR	22Ω 1/16W J	
R5505	NRSA6AJ-220W	MG RESISTOR	22Ω 1/16W J	
R5506	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R5507	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R5509	NRSA6AJ-470W	MG RESISTOR	47Ω 1/16W J	
R5511	NRSA6AJ-470W	MG RESISTOR	47Ω 1/16W J	
R5512	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
R5513	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
R5514	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
R6021	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
R6022	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
R6023	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
R6024	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
R6025	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R6026	NRSA6AJ-393W	MG RESISTOR	39kΩ 1/16W J	
R6027	NRSA6AD-103W	MG RESISTOR	10kΩ 1/16W D	
R6028	NRSA6AD-751W	MG RESISTOR	750Ω 1/16W D	
R6029	NRSA6AD-103W	MG RESISTOR	10kΩ 1/16W D	
R6030	NRSA6AJ-333W	MG RESISTOR	33kΩ 1/16W J	
R6031	NRSA6AJ-472W	MG RESISTOR	4.7kΩ 1/16W J	
R6033	NRSA6AJ-562W	MG RESISTOR	5.6kΩ 1/16W J	
R6034	NRSA6AJ-153W	MG RESISTOR	15kΩ 1/16W J	
R6035	NRSA6AJ-104W	MG RESISTOR	100kΩ 1/16W J	
R6036	NRSA6AJ-104W	MG RESISTOR	100kΩ 1/16W J	
R6037	NRSA6AD-153W	MG RESISTOR	15kΩ 1/16W D	
R6038	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R6042	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R6044	NRSA6AJ-224W	MG RESISTOR	220kΩ 1/16W J	
R6045	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R6046	NRSA6AJ-123W	MG RESISTOR	12kΩ 1/16W J	
R6047	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R6048	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	A
R6049	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
R6102	NRVA6AD-223W	CMF RESISTOR	22kΩ 1/16W D	
R6103	NRVA6AD-103W	CMF RESISTOR	10kΩ 1/16W D	
R6104	NRSA6AJ-474W	MG RESISTOR	470kΩ 1/16W J	
R6105	NRSA6AJ-473W	MG RESISTOR	47kΩ 1/16W J	
R6106	NRSA6AJ-101W	MG RESISTOR	100Ω 1/16W J	
R6107	NRSA6AD-183W	MG RESISTOR	18kΩ 1/16W D	
R6108	NRSA6AD-123W	MG RESISTOR	12kΩ 1/16W D	
R6109	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R6110	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R6202	NRSA6AD-123W	MG RESISTOR	12kΩ 1/16W D	
R6203	NRSA6AD-153W	MG RESISTOR	15kΩ 1/16W D	
R6204	NRSA6AJ-122W	MG RESISTOR	1.2kΩ 1/16W J	
R6302	NRSA6AD-183W	MG RESISTOR	18kΩ 1/16W D	
R6303	NRSA6AD-472W	MG RESISTOR	4.7kΩ 1/16W D	
R6305	NRSA6AJ-104W	MG RESISTOR	100kΩ 1/16W J	
R6306	NRSA6AJ-123W	MG RESISTOR	12kΩ 1/16W J	
R6308	NRSA6AJ-473W	MG RESISTOR	47kΩ 1/16W J	
R6309	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R6310	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R6402	NRSA6AD-243W	MG RESISTOR	24kΩ 1/16W D	
R6403	NRSA6AD-302W	MG RESISTOR	3kΩ 1/16W D	
R6405	NRSA6AJ-123W	MG RESISTOR	12kΩ 1/16W J	
R6406	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	
R6407	NRSA6AJ-104W	MG RESISTOR	100kΩ 1/16W J	
R6502	NRSA6AD-473W	MG RESISTOR	47kΩ 1/16W D	
R6503	NRSA6AD-562W	MG RESISTOR	5.6kΩ 1/16W D	
R6505	NRSA6AJ-473W	MG RESISTOR	47kΩ 1/16W J	
R6506	NRSA6AJ-273W	MG RESISTOR	27kΩ 1/16W J	
R6602	NRSA6AD-114W	MG RESISTOR	110kΩ 1/16W D	
R6603	NRSA6AD-392W	MG RESISTOR	3.9kΩ 1/16W D	
R6604	NRSA6AD-114W	MG RESISTOR	110kΩ 1/16W D	
R6605	NRSA6AJ-222W	MG RESISTOR	2.2kΩ 1/16W J	
R6608	NRSA6AJ-104W	MG RESISTOR	100kΩ 1/16W J	
R6610	NRSA6AD-472W	MG RESISTOR	4.7kΩ 1/16W D	
R6611	NRSA6AD-823W	MG RESISTOR	82kΩ 1/16W D	
R6612	NRSA6AJ-104W	MG RESISTOR	100kΩ 1/16W J	
R6613	NRSA6AJ-823W	MG RESISTOR	82kΩ 1/16W J	
R6614	NRSA6AD-104W	MG RESISTOR	100kΩ 1/16W D	
R6615	NRSA6AD-104W	MG RESISTOR	100kΩ 1/16W D	
R6616	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	
R6617	NRSA6AJ-333W	MG RESISTOR	33kΩ 1/16W J	
R6618	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
R6619	NRSA6AD-823W	MG RESISTOR	82kΩ 1/16W D	
R6701	NRZ0058-R20X	MG RESISTOR	0.2Ω 1/2W J	
R6702	NRSA6AD-114W	MG RESISTOR	110kΩ 1/16W D	
R6703	NRSA6AD-153W	MG RESISTOR	15kΩ 1/16W D	
R6704	NRSA6AJ-224W	MG RESISTOR	220kΩ 1/16W J	
R6706	NRSA6AD-823W	MG RESISTOR	82kΩ 1/16W D	
R6707	NRSA6AD-333W	MG RESISTOR	33kΩ 1/16W D	
R6709	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R6803	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R6804	NRVA6AD-563W	CMF RESISTOR	56kΩ 1/16W D	
⚠ R6805	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
R6813	NRVA6AD-273W	CMF RESISTOR	27kΩ 1/16W D	
R6815	NRSA6AJ-681W	MG RESISTOR	680Ω 1/16W J	
R8001	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	B,C,D
R8002	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	B,C,D
R8003	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	B,C,D
R8004	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	B,C,D
R8005	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	B,C,D
R8006	NRSA6AJ-153W	MG RESISTOR	15kΩ 1/16W J	B,C,D
R8007	NRSA6AJ-472W	MG RESISTOR	4.7kΩ 1/16W J	B,C,D
R8009	NRSA6AJ-472W	MG RESISTOR	4.7kΩ 1/16W J	B,C,D
R8016	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	B,C,D
R8017	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	B,C,D
R8022	NRSA6AJ-105W	MG RESISTOR	1MΩ 1/16W J	B,C,D
R8030	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	B,C,D
R8031	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	B,C,D
R8037	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	B,C,D
R8038	NRSA6AJ-220W	MG RESISTOR	22Ω 1/16W J	B,C,D
R8041	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	B,C,D
R8042	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	B,C,D
R8043	NRSA6AJ-220W	MG RESISTOR	22Ω 1/16W J	B,C,D
R8046	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	B,C,D
R8051	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	B,C,D
R8054	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	B,C,D
R8056	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	B,C,D
R8059	NRSA6AJ-473W	MG RESISTOR	47kΩ 1/16W J	B,C,D
R8063	NRSA6AJ-220W	MG RESISTOR	22Ω 1/16W J	B,C,D
R8065	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	B,C,D
R8066	NRSA6AJ-473W	MG RESISTOR	47kΩ 1/16W J	B,C,D
R8068	NRSA6AJ-561W	MG RESISTOR	560Ω 1/16W J	B,C,D
R8069	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	B,C,D
R8070	NRSA6AJ-220W	MG RESISTOR	22Ω 1/16W J	B,C,D
R8074	NRSA6AJ-473W	MG RESISTOR	47kΩ 1/16W J	B,C,D
R8075	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	B,C,D
R8076	NRSA6AJ-220W	MG RESISTOR	22Ω 1/16W J	B,C,D
R8077	NRSA6AJ-220W	MG RESISTOR	22Ω 1/16W J	B,C,D
R8078	NRSA6AJ-220W	MG RESISTOR	22Ω 1/16W J	B,C,D
R8079	NRSA6AJ-221W	MG RESISTOR	220Ω 1/16W J	B,C,D
R8302	NRS181J-220X	MG RESISTOR	22Ω 1/8W J	B,C,D
R8303	NRS181J-220X	MG RESISTOR	22Ω 1/8W J	B,C,D
R8305	NRSA6AJ-105W	MG RESISTOR	1MΩ 1/16W J	B,C,D
R8306	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	B,C,D
R8307	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	B,C,D
R8308	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	B,C,D
R8309	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	B,C,D
R8313	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	B,C,D
R8314	NRSA6AJ-105W	MG RESISTOR	1MΩ 1/16W J	B,C,D
R8315	NRSA6AJ-105W	MG RESISTOR	1MΩ 1/16W J	B,C,D
R8716	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	B,C,D
R8717	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	B,C,D
RA1001	NRZ0034-473W	NET RESISTOR	47kΩ 1/32W J	
RA1002	NRZ0034-104W	NET RESISTOR	100kΩ 1/32W J	
RA1004	NRZ0034-104W	NET RESISTOR	100kΩ 1/32W J	
RA1005	NRZ0034-103W	NET RESISTOR	10kΩ 1/32W J	
RA1006	NRZ0034-102W	NET RESISTOR	1kΩ 1/32W J	
RA1007	NRZ0034-102W	NET RESISTOR	1kΩ 1/32W J	
RA1008	NRZ0034-104W	NET RESISTOR	100kΩ 1/32W J	
RA3001	NRZ0034-560W	NET RESISTOR	56Ω 1/32W J	
RA3002	NRZ0034-560W	NET RESISTOR	56Ω 1/32W J	

MODEL	MARK	MODEL	MARK
GR-D32US	A	GR-D72US	C
GR-D71US	B	GR-D74US	D

⚠ Symbol No.	Part No.	Part Name	Description	Local
RA3003	NRZ0034-100W	NET RESISTOR	10Ω 1/32W J	
RA3004	NRZ0034-103W	NET RESISTOR	10kΩ 1/32W J	
RA3005	NRZ0040-0R0X	NET RESISTOR	0Ω 1/16W J	
RA8001	NRZ0034-101W	NET RESISTOR	100Ω 1/32W J	B,C,D
RA8002	NRZ0034-101W	NET RESISTOR	100Ω 1/32W J	B,C,D
RA8003	NRZ0034-101W	NET RESISTOR	100Ω 1/32W J	B,C,D
RA8004	NRZ0034-101W	NET RESISTOR	100Ω 1/32W J	B,C,D
L1001	NQL402M-100X	COIL	10uH M	
L1002	NQL402M-100X	COIL	10uH M	
L2101	NQL38DK-100X	P COIL	10uH K	B,C,D
L2401	NQL402M-100X	COIL	10uH M	
L2402	NQL402M-100X	COIL	10uH M	
L3001	NQR0129-002X	FERRITE BEADS		
L3002	NQR0129-002X	FERRITE BEADS		
L3004	NQR0006-001X	FERRITE BEADS		
L3005	NQR0006-001X	FERRITE BEADS		
L3007	NQL085J-2R2X	COIL	2.2uH J	
L3008	NQL085J-120X	COIL	12uH J	
L3012	NQR0129-002X	FERRITE BEADS		
L3014	NQL38DK-100X	P COIL	10uH K	
L3015	NQR0006-001X	FERRITE BEADS		
L3201	NQR0129-002X	FERRITE BEADS		
L3202	NQR0129-002X	FERRITE BEADS		
L3203	NQR0006-001X	FERRITE BEADS		
L3204	NQL38DK-100X	P COIL	10uH K	
L3701	NQL38DK-100X	P COIL	10uH K	
L3731	NQL085J-6R8X	COIL	6.8uH J	B,C,D
L3732	NQL085J-2R2X	COIL	2.2uH J	B,C,D
L4201	NQR0129-002X	FERRITE BEADS		
L4301	NQR0129-002X	FERRITE BEADS		
L4302	NQR0129-002X	FERRITE BEADS		
L4802	NQL302N-100X	COIL	10uH N	
L4851	NQR0129-002X	FERRITE BEADS		
L4852	NQL38DK-100X	P COIL	10uH K	
L4853	NQL38DK-100X	P COIL	10uH K	
L5501	NQL38DK-100X	P COIL	10uH K	
L5502	NQR0129-002X	FERRITE BEADS		
L5503	NQR0129-002X	FERRITE BEADS		
L5504	NQR0129-002X	FERRITE BEADS		
L5505	NQL38DK-100X	P COIL	10uH K	
L5506	NQL38DK-100X	P COIL	10uH K	
L6001	NQL52EN-4R7X	COIL	4.7uH N	B,C,D
L6101	NQL52EM-390X	COIL	39uH M	
L6201	NQL82EN-390X	COIL	39uH N	
L6301	NQL52EM-390X	COIL	39uH M	
L6302	NQL144K-220X	P COIL	22uH K	
L6401	NQL52EM-470X	COIL	47uH M	
L6501	NQL52EM-470X	COIL	47uH M	
L6601	NQLZ011-221X	COIL	220uH M	
L6701	NQL73EM-100X	COIL	10uH M	
L6801	NQL79GM-470X	COIL	47uH M	
L8001	NQR0129-002X	FERRITE BEADS		B,C,D
L8002	NQR0129-002X	FERRITE BEADS		B,C,D
L8003	NQR0129-002X	FERRITE BEADS		B,C,D
L8004	NQR0129-002X	FERRITE BEADS		B,C,D
L8005	NQR0129-002X	FERRITE BEADS		B,C,D
L8006	NQR0129-002X	FERRITE BEADS		B,C,D
L8301	NQR0129-002X	FERRITE BEADS		B,C,D
CN101	QGF0528F1-40X	CONNECTOR	MONITOR L FFC/FPC (1-40)	
CN102	QGF0508F1-06X	CONNECTOR	FRONT FFC/FPC (1-6)	
CN103	QGF0534F1-10X	CONNECTOR	SD CARD L FFC/FPC (1-10)	B,C,D
CN104	QGA1002C1-08X	CONNECTOR	REAR W W-B (1-8)	
CN105	QGB0801M1-30X	CONNECTOR	JIG CN B B-B (1-30)	
CN106	QGA1001F1-04X	CONNECTOR	MIC W W-B (1-4)	
CN107	QGF0512C1-20X	CONNECTOR	CCD S FFC/FPC (1-20)	
CN108	QGF0512C1-24X	CONNECTOR	OP S FFC/FPC (1-24)	
CN109	QGF0534F1-16X	CONNECTOR	OPE UNITL FFC/FPC (1-16)	
CN110	QGF0508F1-40X	CONNECTOR	PRE/MDA L FFC/FPC (1-40)	
CN111	QGF0508F1-40X	CONNECTOR	PRE/MDA L FFC/FPC (1-40)	
CN112	QGF0512C1-12X	CONNECTOR	REAR FFC/FPC (1-12)	
⚠ F6001	NMFZ007-2R5X-K	FUSE	2.5A 24V	
⚠ F6301	NMFZ007-1R25X-K	FUSE	1.25A 32V	
⚠ F6801	NMFZ007-R50X-K	FUSE	0.5A 50V	
J501	NNZ0041-001X	D CONNECTOR	DV IEEE1394(4pin)	
J502	QNZ0616-001	USB CONNECTOR	USB	B,C,D
X1001	NAX0630-001	CRYSTAL		
X1002	NAX0564-001X	CRYSTAL		
X3002	NAX0480-001X	CRYSTAL	24.576MHz	
X5501	NAX0587-001X	CXO		
X8301	NAX0612-001X	C RESONATOR		B,C,D
OT1	LY30030-0Y7A	SPACER(A)	SPACER	
OT2	LY30030-0Y3A	SPACER(A)		
OT3	LY44551-001A	SHEET(MA2)	MAIN	A
OT3	LY44549-001A	SHIELD SHEET		B,C,D
OT4	LY44552-001A	BUSTERAID	MAIN	A
WR1	WJT0122-001A	E-CARD WIRE	MAN-PRE/MD(x2)	

MONI-C BOARD ASSEMBLY <02> [S TYPE]

NOTE :

There are two types of VF(COLOR) ASSEMBLY used for this model: S type and K type.
For methods to distinguish the two types, see Cover Page.

⚠ Symbol No.	Part No.	Part Name	Description	Local
PW1	YB10447B-02	MONI-C BOARD ASSY		A
PW1	YB10447A-02	MONI-C BOARD ASSY		B,C,D
IC7601	AN2540FHQ	IC		
IC7602	RC4558D-X	IC		
IC7604	SN74LV08APW-X	IC		
IC7606	MM1613AN-X	IC		
Q7601	2SC4617/QR/-X	TRANSISTOR		
Q7601	or 2SC4738/YG/-X	TRANSISTOR		
Q7601	or 2SD2216J/QR/-X	TRANSISTOR		
Q7601	or BC847BT-X	TRANSISTOR		
Q7602	2SA1774/QR/-X	TRANSISTOR		
Q7602	or 2SA1832/YG/-X	TRANSISTOR		
Q7602	or BC857BT-X	TRANSISTOR		
Q7602	or 2SB1462J/QR/-X	TRANSISTOR		
Q7603	2SC4617/QR/-X	TRANSISTOR		
Q7603	or 2SC4738/YG/-X	TRANSISTOR		
Q7603	or 2SD2216J/QR/-X	TRANSISTOR		
Q7603	or BC847BT-X	TRANSISTOR		
Q7604	2SA1774/QR/-X	TRANSISTOR		
Q7604	or 2SA1832/YG/-X	TRANSISTOR		
Q7604	or BC857BT-X	TRANSISTOR		
Q7604	or 2SB1462J/QR/-X	TRANSISTOR		
Q7608	DTC144EE-X	DIGI TRANSISTOR		
Q7608	or UN9213J-X	DIGI TRANSISTOR		
Q7608	or RN1104-X	DIGI TRANSISTOR		
Q7608	or BCR148T-X	DIGI TRANSISTOR		
Q7609	DTC144EE-X	DIGI TRANSISTOR		
Q7609	or UN9213J-X	DIGI TRANSISTOR		
Q7609	or RN1104-X	DIGI TRANSISTOR		
Q7609	or BCR148T-X	DIGI TRANSISTOR		
Q7610	DTA144EE-X	DIGI TRANSISTOR		
Q7610	or UN9113J-X	DIGI TRANSISTOR		
Q7610	or RN2104-X	DIGI TRANSISTOR		
Q7610	or BCR198T-X	DIGI TRANSISTOR		
D7602	BAS16-03W-X	SI DIODE		
D7604	MA8068-X	Z DIODE		
C1	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C10	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	B,C,D
C11	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	B,C,D
C7601	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C7603	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	
C7604	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	
C7605	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	
C7606	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C7607	NCB41CK-106X	C CAPACITOR	10uF 16V K	
C7609	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C7610	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	
C7611	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	
C7612	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	
C7613	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	
C7614	NCB31HK-152X	C CAPACITOR	1500pF 50V K	
C7616	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	

MODEL	MARK	MODEL	MARK
GR-D32US	A	GR-D72US	C
GR-D71US	B	GR-D74US	D

⚠ Symbol No.	Part No.	Part Name	Description	Local
C7618	NBE90JM-106X	TA E CAPACITOR	10uF 6.3V M	
C7619	NBE90JM-106X	TA E CAPACITOR	10uF 6.3V M	
C7621	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C7622	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C7623	NBE21AM-106X	TA E CAPACITOR	10uF 10V M	
C7624	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C7626	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C7627	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C7628	NBP41EM-475X-B	TA E CAPACITOR	4.7uF 25V M	
C7629	NBP21CM-335X	TA E CAPACITOR	3.3uF 16V M	
C7630	NBP41EM-475X-B	TA E CAPACITOR	4.7uF 25V M	
C7632	NBP41EM-475X-B	TA E CAPACITOR	4.7uF 25V M	
C7634	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	
C7637	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C7638	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	
C7639	NBP41CM-106X	TA E CAPACITOR	10uF 16V M	
C7642	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C7653	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C7654	NCB21AK-105X	C CAPACITOR	1uF 10V K	
R3	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R5	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R6	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R7	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	B,C,D
R8	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	B,C,D
R9	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	B,C,D
R18	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	B,C,D
R19	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	B,C,D
R21	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	B,C,D
R22	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	B,C,D
R23	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	B,C,D
R25	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	B,C,D
R29	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	B,C,D
R30	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	B,C,D
R31	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	B,C,D
R32	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	B,C,D
R7601	NRVA63D-622X	CMF RESISTOR	6.2kΩ 1/16W D	
R7602	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R7604	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R7605	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R7606	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R7607	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R7608	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R7609	NRVA63D-223X	CMF RESISTOR	22kΩ 1/16W D	
R7610	NRVA63D-433X	CMF RESISTOR	43kΩ 1/16W D	
R7611	NRVA63D-821X	CMF RESISTOR	820Ω 1/16W D	
R7612	NRVA63D-223X	CMF RESISTOR	22kΩ 1/16W D	
R7613	NRVA63D-223X	CMF RESISTOR	22kΩ 1/16W D	
R7614	NRVA63D-223X	CMF RESISTOR	22kΩ 1/16W D	
R7615	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R7616	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R7617	NRSA02J-330X	MG RESISTOR	33Ω 1/10W J	
R7618	NRSA02J-330X	MG RESISTOR	33Ω 1/10W J	
R7619	NRSA63D-103X	MG RESISTOR	10kΩ 1/16W D	
R7626	NRVA63D-563X	CMF RESISTOR	56kΩ 1/16W D	
R7627	NRSA63J-335X	MG RESISTOR	3.3MΩ 1/16W J	
R7630	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R7634	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R7636	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R7637	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R7638	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R7639	NRSA63D-912X	MG RESISTOR	9.1kΩ 1/16W D	
R7643	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R7644	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R7646	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R7648	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R7663	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
L10	NQR0129-002X	FERRITE BEADS		B,C,D
L7601	NQL38DK-100X	P COIL	10uH K	
L7602	NQL38DK-100X	P COIL	10uH K	
L7603	NQL38DK-100X	P COIL	10uH K	
L7604	NQL38DK-100X	P COIL	10uH K	
L7605	NQL38DK-100X	P COIL	10uH K	
L7607	NQL38DK-100X	P COIL	10uH K	
CN761	QGF0508F1-40X	CONNECTOR	MAIN FFC/FPC (1-40)	
CN762	QGF0532F2-10X	CONNECTOR	DSC FFC/FPC (1-10)	B,C,D
CN763	QGF0532F2-20X	CONNECTOR	2.5 FFC/FPC (1-20)	
CN765	QGF0506F2-32X	CONNECTOR	LCD BL FFC/FPC (1-32)	
CN766	NNZ0058-001X	SD CARD CONNECTOR	SD/MMC	B,C,D
J7601	QND0087-001	S JACK		
SW2	NSW0198-001X	TACT SWITCH	STOP	
SW3	NSW0198-001X	TACT SWITCH	REW	
SW4	NSW0198-001X	TACT SWITCH	FF	
SW5	NSW0198-001X	TACT SWITCH	PLAY/PAUSE	
SW6	NSW0099-001X	SLIDE SWITCH	DSC	B,C,D
SW7	NSW0198-001X	TACT SWITCH		B,C,D
SW8	NSW0198-001X	TACT SWITCH		B,C,D
SW7601	QSW0451-001	DETECT SW	2.5 OPN SW	
OT1	LY30030-0V7A	SPACER(A)	(x2)	
OT2	LY30034-003A	SPACER(A)		
WR1	QUQ105-4007AA	FFC WIRE	MAIN-M.FFC	
WR2	QUQ105-1007AA	FFC WIRE	MAIN-M.FFC	B,C,D

MONI-C BOARD ASSEMBLY <02> [K TYPE]

NOTE :

There are two types of VF(COLOR) ASSEMBLY used for this model: S type and K type.
For methods to distinguish the two types, see Cover Page.

⚠ Symbol No.	Part No.	Part Name	Description	Local
PW1	YB10453B	MONI-C BOARD ASSY		A
PW1	YB10453A-01	MONI-C BOARD ASSY		B,C,D
IC7601	AN2540FHQ	IC		
IC7602	RC4558D-X	IC		
IC7604	SN74LV08APW-X	IC		
IC7606	MM1613AN-X	IC		
Q7601	2SC4617/QR/-X	TRANSISTOR		
Q7601	or 2SC4738/YG/-X	TRANSISTOR		
Q7601	or 2SD2216J/QR/-X	TRANSISTOR		
Q7601	or BC847BT-X	TRANSISTOR		
Q7602	2SA1774/QR/-X	TRANSISTOR		
Q7602	or 2SA1832/YG/-X	TRANSISTOR		
Q7602	or BC857BT-X	TRANSISTOR		
Q7602	or 2SB1462J/QR/-X	TRANSISTOR		
Q7603	2SC4617/QR/-X	TRANSISTOR		
Q7603	or 2SC4738/YG/-X	TRANSISTOR		
Q7603	or 2SD2216J/QR/-X	TRANSISTOR		
Q7603	or BC847BT-X	TRANSISTOR		
Q7604	2SA1774/QR/-X	TRANSISTOR		
Q7604	or 2SA1832/YG/-X	TRANSISTOR		
Q7604	or BC857BT-X	TRANSISTOR		
Q7604	or 2SB1462J/QR/-X	TRANSISTOR		
Q7605	DTC144EE-X	DIGI TRANSISTOR	KOPIN	
Q7605	or UN9213J-X	DIGI TRANSISTOR	KOPIN	
Q7605	or RN1104-X	DIGI TRANSISTOR	KOPIN	
Q7605	or BCR148T-X	DIGI TRANSISTOR	KOPIN	
Q7608	DTC144EE-X	DIGI TRANSISTOR		
Q7608	or UN9213J-X	DIGI TRANSISTOR		
Q7608	or RN1104-X	DIGI TRANSISTOR		
Q7608	or BCR148T-X	DIGI TRANSISTOR		
Q7609	DTC144EE-X	DIGI TRANSISTOR		
Q7609	or UN9213J-X	DIGI TRANSISTOR		
Q7609	or RN1104-X	DIGI TRANSISTOR		
Q7609	or BCR148T-X	DIGI TRANSISTOR		
Q7610	DTA144EE-X	DIGI TRANSISTOR		
Q7610	or UN9113J-X	DIGI TRANSISTOR		
Q7610	or RN2104-X	DIGI TRANSISTOR		
Q7610	or BCR198T-X	DIGI TRANSISTOR		
D7602	BAS16-03W-X	SI DIODE		
D7604	MA8068-X	Z DIODE		
C1	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C10	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	B,C,D
C11	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	B,C,D
C7601	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C7603	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	

MODEL	MARK	MODEL	MARK
GR-D32US	A	GR-D72US	C
GR-D71US	B	GR-D74US	D

⚠ Symbol No.	Part No.	Part Name	Description	Local
C7604	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	
C7605	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	
C7606	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C7607	NCB41CK-106X	C CAPACITOR	10uF 16V K	
C7609	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C7610	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	
C7611	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	
C7612	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	
C7613	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	
C7614	NCB31HK-152X	C CAPACITOR	1500pF 50V K	
C7616	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C7618	NBE90JM-106X	TA E CAPACITOR	10uF 6.3V M	
C7619	NBE90JM-106X	TA E CAPACITOR	10uF 6.3V M	
C7621	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C7622	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C7623	NBE21AM-106X	TA E CAPACITOR	10uF 10V M	
C7624	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C7625	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C7626	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C7627	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C7628	NBP41EM-475X-B	TA E CAPACITOR	4.7uF 25V M	
C7629	NBP21CM-335X	TA E CAPACITOR	3.3uF 16V M	
C7630	NBP41EM-475X-B	TA E CAPACITOR	4.7uF 25V M	
C7632	NBP41EM-475X-B	TA E CAPACITOR	4.7uF 25V M	
C7634	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	
C7637	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C7639	NBP41CM-106X	TA E CAPACITOR	10uF 16V M	
C7642	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C7653	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C7654	NCB21AK-105X	C CAPACITOR	1uF 10V K	
C7655	NBE21AM-106X	TA E CAPACITOR	10uF 10V M	
R3	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R5	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R6	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R7	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	B,C,D
R8	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	B,C,D
R9	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	B,C,D
R18	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	B,C,D
R19	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	B,C,D
R21	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	B,C,D
R22	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	B,C,D
R23	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	B,C,D
R25	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	B,C,D
R29	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	B,C,D
R30	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	B,C,D
R31	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	B,C,D
R32	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	B,C,D
R7601	NRVA63D-622X	CMF RESISTOR	6.2kΩ 1/16W D	
R7602	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R7604	NRSA63D-273X	MG RESISTOR	27kΩ 1/16W D	
R7605	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R7606	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R7607	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R7608	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R7609	NRVA63D-223X	CMF RESISTOR	22kΩ 1/16W D	
R7610	NRVA63D-433X	CMF RESISTOR	43kΩ 1/16W D	
R7611	NRVA63D-821X	CMF RESISTOR	820Ω 1/16W D	
R7612	NRVA63D-223X	CMF RESISTOR	22kΩ 1/16W D	
R7613	NRVA63D-223X	CMF RESISTOR	22kΩ 1/16W D	
R7614	NRVA63D-223X	CMF RESISTOR	22kΩ 1/16W D	
R7615	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R7616	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R7617	NRSA02J-330X	MG RESISTOR	33Ω 1/10W J	
R7618	NRSA02J-330X	MG RESISTOR	33Ω 1/10W J	
R7619	NRSA63D-103X	MG RESISTOR	10kΩ 1/16W D	
R7621	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R7622	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R7630	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R7634	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R7636	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R7637	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R7638	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R7639	NRSA63D-912X	MG RESISTOR	9.1kΩ 1/16W D	
R7640	NRSA63D-273X	MG RESISTOR	27kΩ 1/16W D	
R7641	NRSA63D-332X	MG RESISTOR	3.3kΩ 1/16W D	
R7642	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R7645	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R7647	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R7648	NRSA63D-183X	MG RESISTOR	18kΩ 1/16W D	
R7651	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R7653	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R7654	NRSA63D-122X	MG RESISTOR	1.2kΩ 1/16W D	
R7655	NRSA63D-333X	MG RESISTOR	33kΩ 1/16W D	
R7663	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R7664	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R7665	NRSA63D-683X	MG RESISTOR	68kΩ 1/16W D	
R7666	NRSA63D-473X	MG RESISTOR	47kΩ 1/16W D	
R7667	NRSA63D-561X	MG RESISTOR	560Ω 1/16W D	
L10	NQR0129-002X	FERRITE BEADS		B,C,D
L7601	NQL38DK-100X	P COIL	10uH K	
L7602	NQL38DK-100X	P COIL	10uH K	
L7603	NQL38DK-100X	P COIL	10uH K	
L7604	NQL38DK-100X	P COIL	10uH K	
L7605	NQL38DK-100X	P COIL	10uH K	
L7607	NQL38DK-100X	P COIL	10uH K	
CN761	QGF0508F1-40X	CONNECTOR	MAIN FFC/FPC (1-40)	
CN762	QGF0532F2-10X	CONNECTOR	DSC FFC/FPC (1-10)	B,C,D
CN763	QGF0532F2-20X	CONNECTOR	2.5 FFC/FPC (1-20)	
CN765	QGF0506F2-32X	CONNECTOR	LCD BL FFC/FPC (1-32)	
CN766	NNZ0058-001X	SD CARD CONNE	SD/MMC	B,C,D
J7601	QND0087-001	S JACK		
SW2	NSW0198-001X	TACT SWITCH	STOP	
SW3	NSW0198-001X	TACT SWITCH	REW	
SW4	NSW0198-001X	TACT SWITCH	FF	
SW5	NSW0198-001X	TACT SWITCH	PLAY/PAUSE	
SW6	NSW0099-001X	SLIDE SWITCH	DSC	B,C,D
SW7	NSW0198-001X	TACT SWITCH		B,C,D
SW8	NSW0198-001X	TACT SWITCH		B,C,D
SW7601	QSW0451-001	DETECT SW	2.5 OPN SW	
OT1	LY30030-0V7A	SPACER(A)	(x2)	
WR1	QUQ105-4007AA	FFC WIRE	MAIN-M.FFC	
WR2	QUQ105-1007AA	FFC WIRE	MAIN-M.FFC	B,C,D

BL2.5 BOARD ASSEMBLY <03>

⚠ Symbol No.	Part No.	Part Name	Description	Local
PW1	YB20964A	BL2.5 BOARD ASSY		
IC7504	DN8797MS-X	IC	TEZUKE	
Q7501	2SD1664/QR/-W	TRANSISTOR		
Q7502	2SD1664/QR/-W	TRANSISTOR		
Q7503	DTA144EE-X	DIGI TRANSISTOR		
Q7503 or	UN9113J-X	DIGI TRANSISTOR		
Q7503 or	RN2104-X	DIGI TRANSISTOR		
Q7503 or	BCR198T-X	DIGI TRANSISTOR		
Q7504	DTC144EE-X	DIGI TRANSISTOR		
Q7504 or	UN9213J-X	DIGI TRANSISTOR		
Q7504 or	RN1104-X	DIGI TRANSISTOR		
Q7504 or	BCR148T-X	DIGI TRANSISTOR		
C7501	NCZ1016-120X	C CAPACITOR	12pF 2kV J	
C7502	NCB21EK-273X	C CAPACITOR	0.027uF 25V K	
C7503	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C7504	NCB10JK-106X	C CAPACITOR	10uF 6.3V K	
R7501	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R7502	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R7503	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R7504	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R7511	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R7512	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R7513	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
L7501	NQLZ010-680X	COIL	68uH	
T7501	NQS0056-001X	SW TARNSF		
CN7601	QGF0534F1-16X	CONNECTOR	FFC/FPC (1-16)	
CN7602	QGF0534F1-16X	CONNECTOR	FFC/FPC (1-16)	

MODEL	MARK	MODEL	MARK
GR-D32US	A	GR-D72US	C
GR-D71US	B	GR-D74US	D

⚠ Symbol No.	Part No.	Part Name	Description	Local
CN7603	QGF0534F1-24X	CONNECTOR	FFC/FPC (1-24)	
⚠ F7501	NMFZ007-R40X-K	FUSE	0.4A 50V	
WR1	QAL0464-001	FPC	TEZUKE	

CCD BOARD ASSEMBLY <04>

⚠ Symbol No.	Part No.	Part Name	Description	Local
PW1	YB20963B-01-SS	CCD BOARD ASSY		A
PW1	YB20963A-01-SS	CCD BOARD ASSY		B,C,D
Q5001	2SC3931/CD/-X	TRANSISTOR		
Q5002	2SC4081/QR/-X	TRANSISTOR	2SC4081	B,C,D
Q5002 or	BC847BW-X	TRANSISTOR		B,C,D
C5001	NBP41EM-475X-B	TA E CAPACITOR	4.7uF 25V M	
C5002	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C5003	NBE21AM-106X	TA E CAPACITOR	10uF 10V M	
C5004	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C5005	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C5006	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C5007	NCB31EK-222X	C CAPACITOR	2200pF 25V K	
R5001	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R5002	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R5005	NRS181J-472X	MG RESISTOR	4.7kΩ 1/8W J	B,C,D
R5007	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
L5001	NQL144K-100X	P COIL	0.30Ω 10uH K	
L5002	NQL38DK-100X	P COIL	10uH K	

PREMDA BOARD ASSEMBLY <05>

⚠ Symbol No.	Part No.	Part Name	Description	Local
PW1	YB10445A-02	PREMDA BOARD ASSY		
⚠ IC1601	BD6637KV	IC	MDA 64PIN	
IC1701	BA10358FVM-W	IC	REELAMP5V	
IC1702	LM393DR-X	IC	REELSMT	
IC3501	JCY0132	IC		
IC3502	SN74AHC1G04K-X	IC		
IC3502 or	SN74AHC1G04DC-X	IC(DIGITAL)		
Q1601	UMC3N-W	DIGI TRANSISTOR	LD ON	
D1602	DAP222-X	DIODE ARRAY	LD OUT	
D1602 or	MA132WA-X	SI DIODE		
D1603	DAP222-X	DIODE ARRAY	LD ON	
D1603 or	MA132WA-X	SI DIODE		
D1604	DAP222-X	DIODE ARRAY	C.ERR-3V	
D1604 or	MA132WA-X	SI DIODE		
C1601	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C1602	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
C1603	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
C1605	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1606	NCB31HK-152X	C CAPACITOR	1500pF 50V K	
C1607	NCB31CK-473X	C CAPACITOR	0.047uF 16V K	
C1614	NBE21AM-106X	TA E CAPACITOR	10uF 10V M	
C1618	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
C1619	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
C1620	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
C1621	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C1622	NCB31CK-223X	C CAPACITOR	0.022uF 16V K	
C1623	NCB31CK-473X	C CAPACITOR	0.047uF 16V K	
C1624	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C1625	NCS31HJ-101X	C CAPACITOR	100pF 50V J	
C1626	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C1627	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C1628	NCB21CK-224X	C CAPACITOR	0.22uF 16V K	
C1629	NCB21EK-224X	C CAPACITOR	0.22uF 25V K	
C1630	NCB21EK-224X	C CAPACITOR	0.22uF 25V K	
C1631	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
C1632	NCB21CK-474X	C CAPACITOR	0.47uF 16V K	
C1633	NCB21CK-474X	C CAPACITOR	0.47uF 16V K	
C1701	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1702	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3501	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
C3502	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
C3503	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
C3504	NCB31CK-473X	C CAPACITOR	0.047uF 16V K	
C3505	NCB31CK-223X	C CAPACITOR	0.022uF 16V K	
C3506	NCB21AK-105X	C CAPACITOR	1uF 10V K	
C3507	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C3508	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C3509	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C3510	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3511	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C3512	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3513	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3514	NCB31CK-473X	C CAPACITOR	0.047uF 16V K	
C3515	NCB31CK-473X	C CAPACITOR	0.047uF 16V K	
C3516	NCB31CK-473X	C CAPACITOR	0.047uF 16V K	
C3517	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C3518	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C3519	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C3520	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C3521	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3522	NCB20JM-475X	C CAPACITOR	4.7uF 6.3V M	
C3523	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C3524	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C3525	NCB20JM-475X	C CAPACITOR	4.7uF 6.3V M	
C3526	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C3527	NDC31HJ-221X	C CAPACITOR	220pF 50V J	
C3528	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
R1601	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J	
R1602	NRSA63J-124X	MG RESISTOR	120kΩ 1/16W J	
R1603	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R1604	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R1610	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	
R1611	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	
R1612	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R1613	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1614	NRZ0072-R330X	MG RESISTOR	0.33Ω 1/4W F	
R1616	NRSA63D-392X	MG RESISTOR	3.9kΩ 1/16W D	
R1617	NRZ0072-R330X	MG RESISTOR	0.33Ω 1/4W F	
R1620	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J	
R1621	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1622	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1624	NRSA63D-183X	MG RESISTOR	18kΩ 1/16W D	
R1625	NRSA63D-681X	MG RESISTOR	680Ω 1/16W D	
R1629	NRSA63J-564X	MG RESISTOR	560kΩ 1/16W J	
R1630	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1631	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1635	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R1636	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	
R1637	NRSA63J-154X	MG RESISTOR	150kΩ 1/16W J	
R1638	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1639	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
R1640	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
R1641	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1642	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1701	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J	
R1702	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R1703	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R1704	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R1705	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R1706	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J	
R1707	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1708	NRSA63J-124X	MG RESISTOR	120kΩ 1/16W J	
R1709	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1710	NRSA63J-124X	MG RESISTOR	120kΩ 1/16W J	
R1711	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1712	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3501	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R3502	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R3503	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3504	NRSA63D-241X	MG RESISTOR	240Ω 1/16W D	
R3505	NRSA63D-241X	MG RESISTOR	240Ω 1/16W D	

MODEL	MARK	MODEL	MARK
GR-D32US	A	GR-D72US	C
GR-D71US	B	GR-D74US	D

⚠	Symbol No.	Part No.	Part Name	Description	Local
	R3506	NRSA63D-241X	MG RESISTOR	240Ω 1/16W D	
	R3507	NRSA63D-241X	MG RESISTOR	240Ω 1/16W D	
	R3508	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
	R3511	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
	L3501	NQR0006-001X	FERRITE BEADS		
	L3502	NQL402M-100X	COIL	10uH M	
	L3503	NQR0006-001X	FERRITE BEADS		
	L3504	NQR0006-001X	FERRITE BEADS		
	L3505	NQR0006-001X	FERRITE BEADS		
	CN401	QGF0508F1-40X	CONNECTOR	MAIN1(PRE) FFC/FPC (1-40)	
	CN402	QGF0520F1-08X	CONNECTOR	HEAD FFC/FPC (1-8)	
	CN403	QGF0505F2-06X	CONNECTOR	LOADING FFC/FPC (1-6)	
	CN404	QGF0534F1-11X	CONNECTOR	DRUM FFC/FPC (1-11)	
	CN405	QGF0534F1-18X	CONNECTOR	CAPSTAN FFC/FPC (1-18)	
	CN406	QGF0505F2-16X	CONNECTOR	SENSOR FFC/FPC (1-16)	
	CN407	QGF0508F1-06X	CONNECTOR	ROT E SW FFC/FPC (1-6)	
	CN408	QGF0508F1-40X	CONNECTOR	MAIN2(MDA) FFC/FPC (1-40)	
⚠	F1601	NMFZ007-R20X-K	FUSE	1608 UNREG 0.2A 50V	
⚠	F1602	NMFZ007-R50X-K	FUSE	1608 REG3V 0.5A 50V	
	SD1	LY33021-001A	SHIELD COVER(P/R)	PRE S-CASE	

FRONT BOARD ASSEMBLY <06>

⚠	Symbol No.	Part No.	Part Name	Description	Local
	PW1	YB10446A-01	FRONT BOARD ASSY		
	Q9001	BC847PN-X	PAIR TRANSISTOR		
	Q9002	BC847PN-X	PAIR TRANSISTOR		
	Q9003	2SC4617/RS/-X	TRANSISTOR	ON/OFF	
	D9001	NSPW500BS/CRS/	LED	LIGHTLED	
	D9002	NSPW500BS/CRS/	LED	LIGHTLED	
	R9001	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	
	R9002	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
	R9003	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
	R9004	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	
	R9005	NRSA63J-270X	MG RESISTOR	27Ω 1/16W J	
	R9006	NRSA63J-270X	MG RESISTOR	27Ω 1/16W J	
	R9007	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
	CN9001	QGF0508F1-06X	CONNECTOR	FFC/FPC (1-6)	
	SW9001	NSW0150-001X	PUSH SWITCH	EJECT	
	HD1	LY33654-001A	HOLDER(LED)		
	OT1	LY30031-003A	SPECIAL SCREW		
	WR1	QUQ105-06X2AA	FFC WIRE	FRONT FFC	

C-VF BOARD ASSEMBLY <07> [S TYPE]

NOTE :

There are two types of VF(COLOR) ASSEMBLY used for this model: S type and K type.

For methods to distinguish the two types, see Cover Page.

⚠	Symbol No.	Part No.	Part Name	Description	Local
	PW1	YB20941A	C-VF BOARD ASSY		
	Q7001	PUMX1-W	PAIR TRANSISTOR		
	Q7001 or	BC847S-X	PAIR TRANSISTOR		
	D7001	E1S35AW0C501-X	LED		
	C7001	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
	R7001	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
	R7002	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	
	R7003	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
	CN7001	QGF0532F2-18X	CONNECTOR	FFC/FPC (1-18)	

⚠	Symbol No.	Part No.	Part Name	Description	Local
	CN7002	QGF0507F3-16X	CONNECTOR	FFC/FPC (1-16)	

C-VF BOARD ASSEMBLY <07> [K TYPE]

NOTE :

There are two types of VF(COLOR) ASSEMBLY used for this model: S type and K type.

For methods to distinguish the two types, see Cover Page.

⚠	Symbol No.	Part No.	Part Name	Description	Local
	PW1	YB20965A-01	C-VF BOARD ASSY		
	Q7001	PUMX1-W	PAIR TRANSISTOR		
	Q7001 or	BC847S-X	PAIR TRANSISTOR		
	D7001	E1S35AW0C501-X	LED		
	C7004	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
	C7005	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
	R7001	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
	R7002	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	
	R7003	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
	R7004	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
	R7005	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
	CN7001	QGF0532F2-18X	CONNECTOR	FFC/FPC (1-18)	
	CN7002	QGF0507F3-20X	CONNECTOR	FFC/FPC (1-20)	

PARTS LIST

SAFETY PRECAUTION

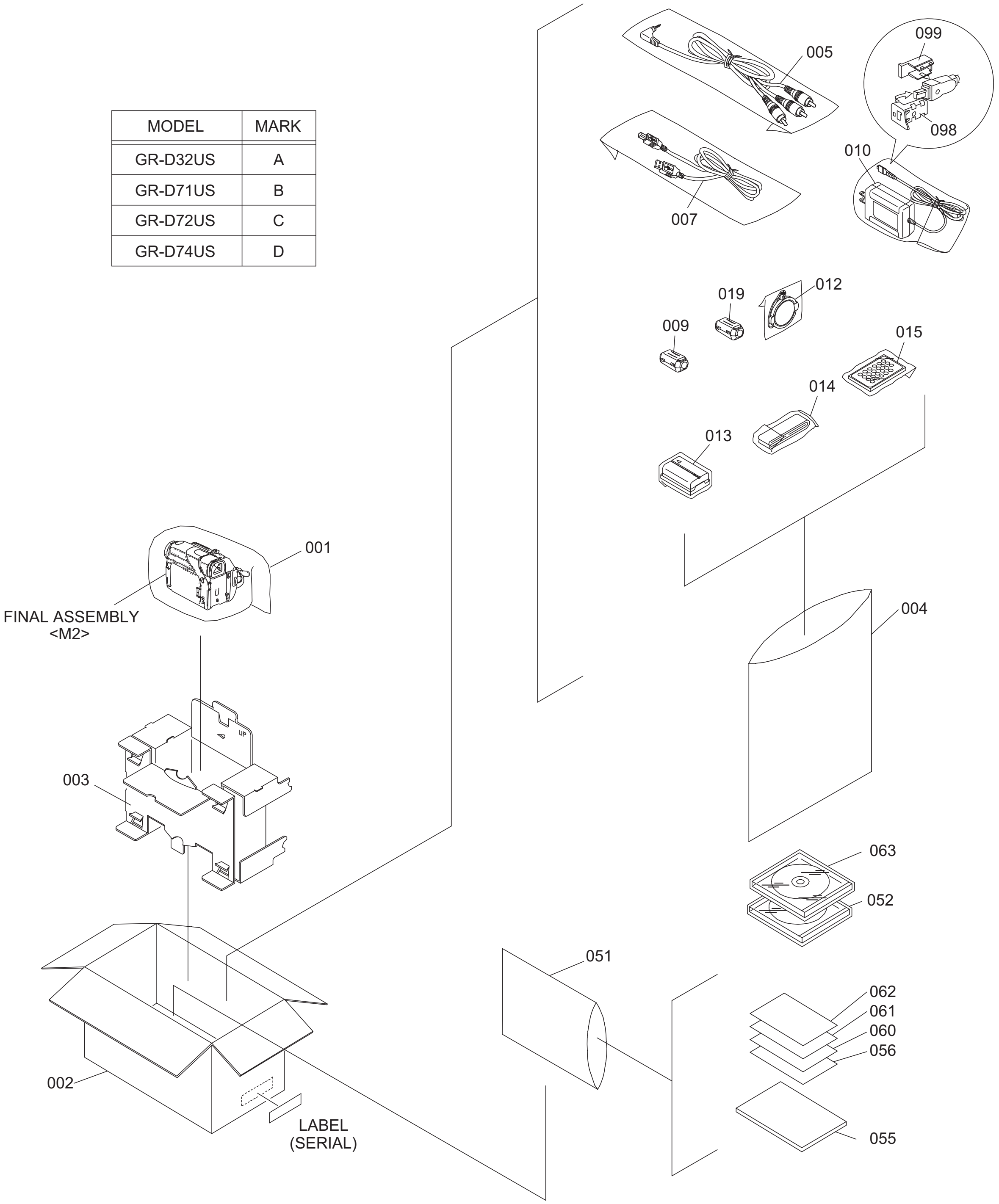
Parts identified by the ⚠ symbol are critical for safety. Replace only with specified part numbers.

1. EXPLODED VIEW

1.1 PACKING AND ACCESSORY ASSEMBLY <M1>

The instruction manual to be provided with this product will differ according to the destination.

MODEL	MARK
GR-D32US	A
GR-D71US	B
GR-D72US	C
GR-D74US	D

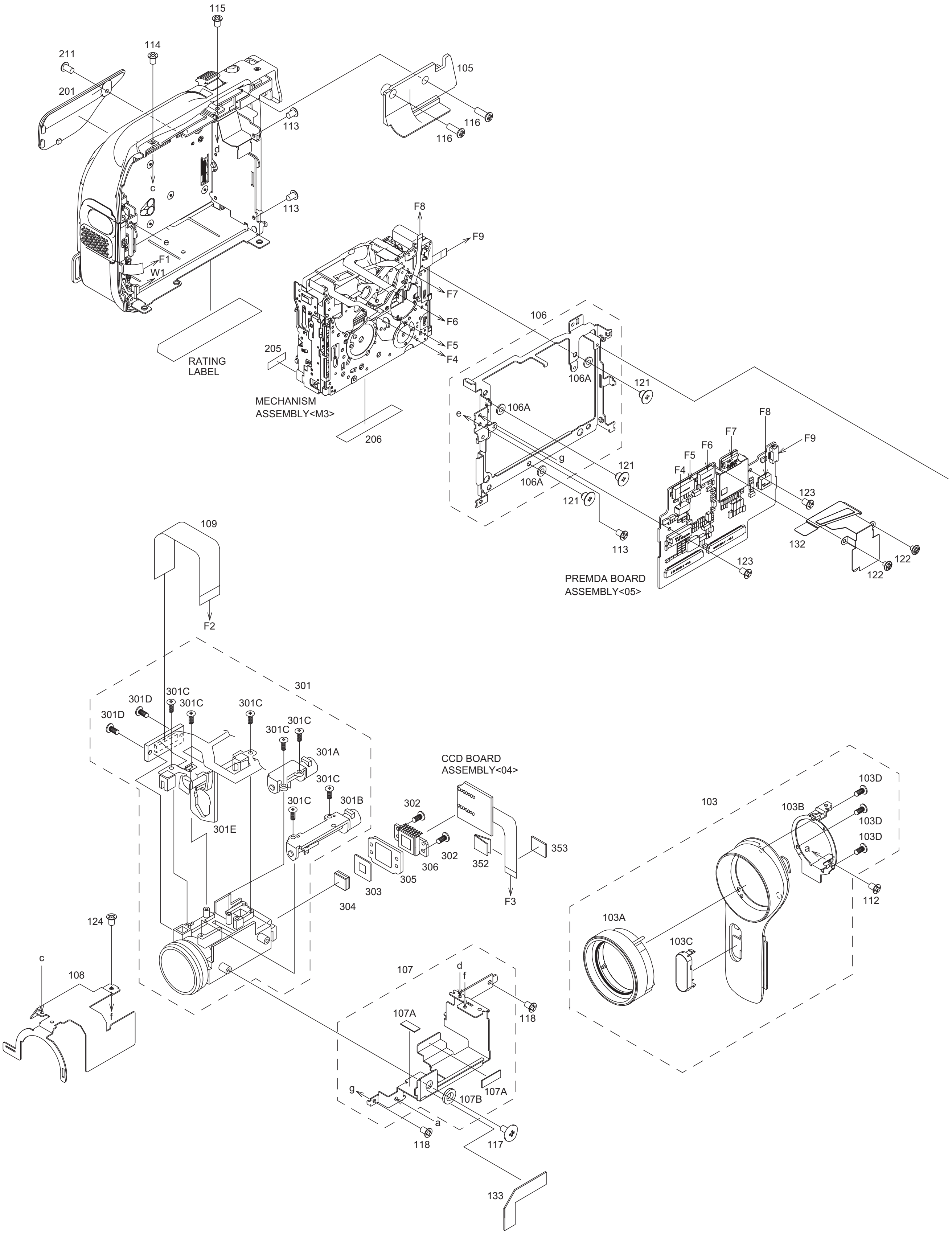


005
099
098
010
007
019
012
009
015
014
013
001
FINAL ASSEMBLY
<M2>
004
003
063
052
051
062
061
060
056
002
055
LABEL
(SERIAL)

1.2 FINAL ASSEMBLY <M2>

BEWARE OF BOGUS PARTS

Parts that do not meet specifications may cause trouble in regard to safety and performance. We recommend that genuine JVC parts be used.



115
114
211
201
105
113
116
116
d
c
113
e
F1
W1
F8
F9
F7
F6
F5
F4
RATING
LABEL
205
MECHANISM
ASSEMBLY<M3>
206
106
106A
121
106A
e
g
121
106A
121
113
F8
F7
F6
F5
F4
F9
123
132
122
122
123
PREMDA BOARD
ASSEMBLY<05>
109
F2
301
301D
301C
301C
301C
301D
301C
301C
301A
301C
301C
301B
301E
CCD BOARD
ASSEMBLY<04>
302
302
306
305
303
304
352
353
F3
103
103D
103B
103D
103D
a
112
103A
103C
124
c
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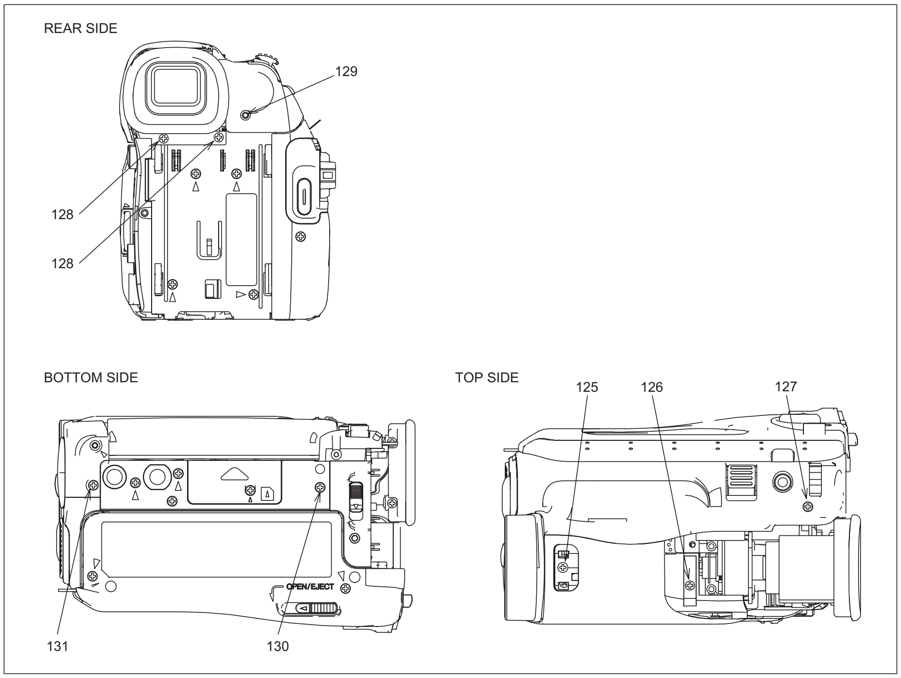
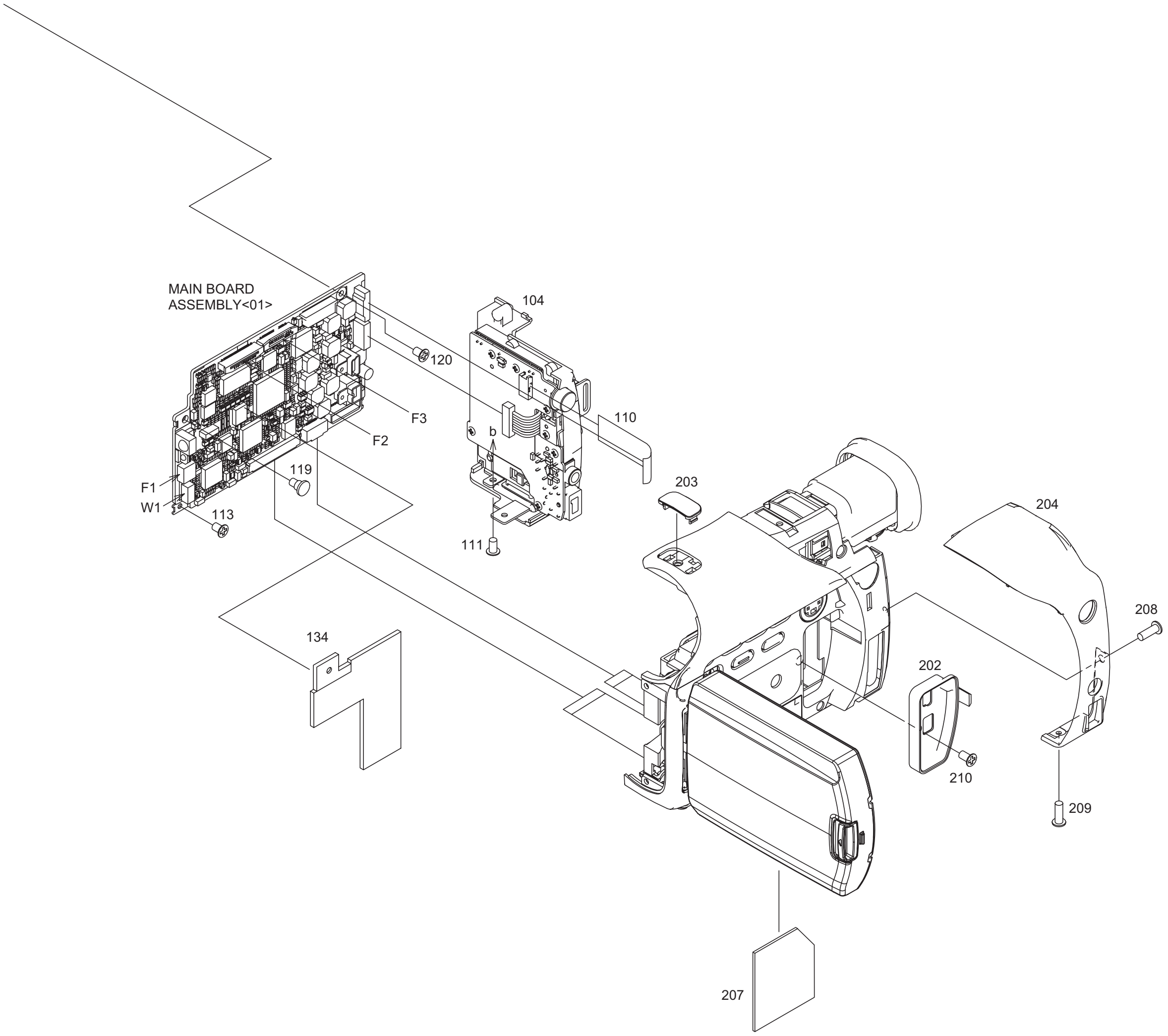
f
107
d
f
118
107A
107A
107B
g
a
118
117
133


REAR SIDE
BOTTOM SIDE
OPEN/EJECT
TOP SIDE


MAIN BOARD
ASSEMBLY<01>
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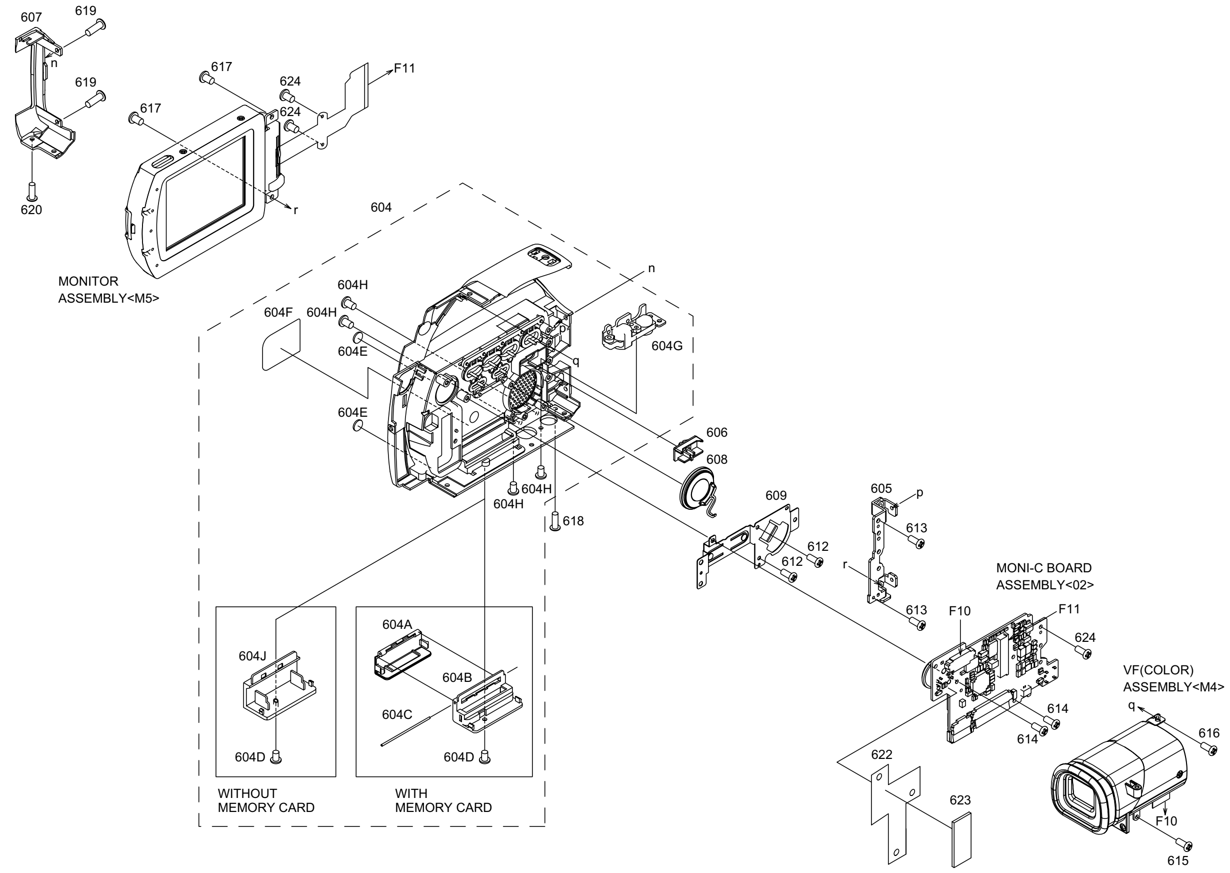
F1
W1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619
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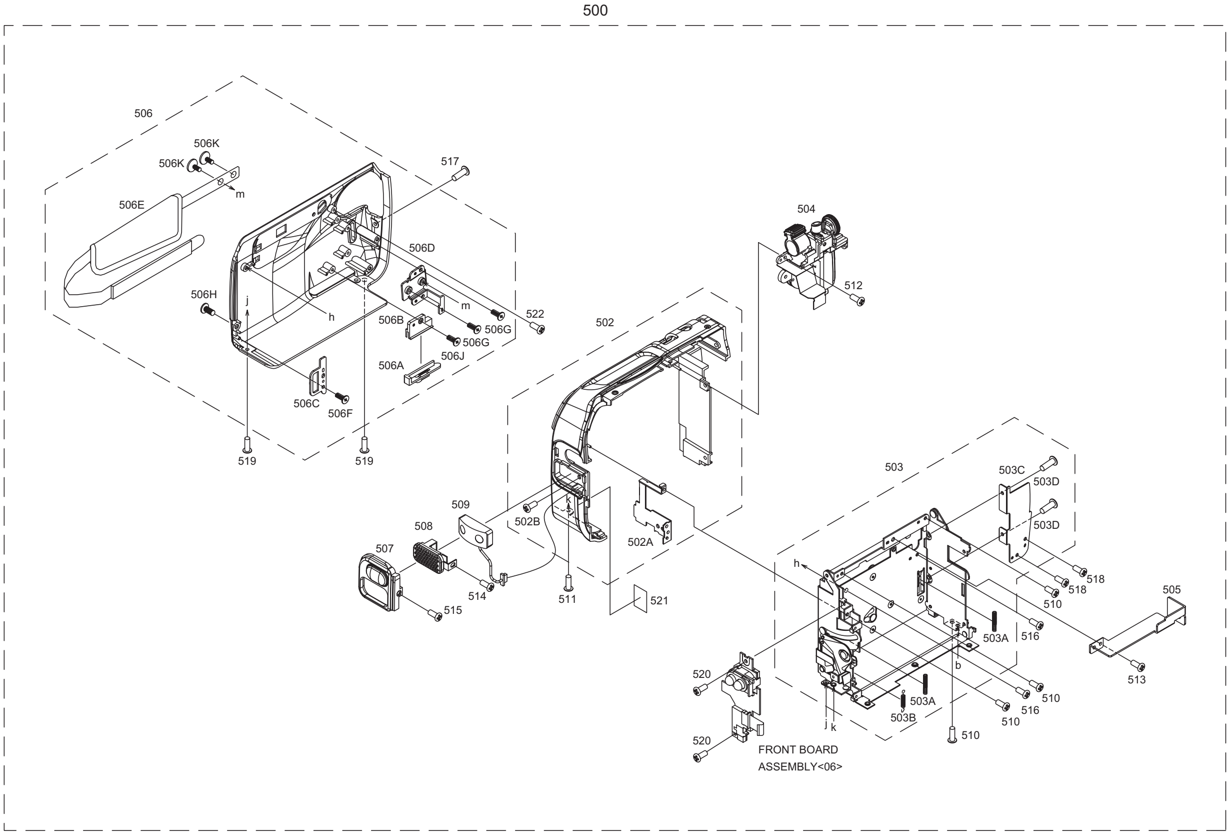
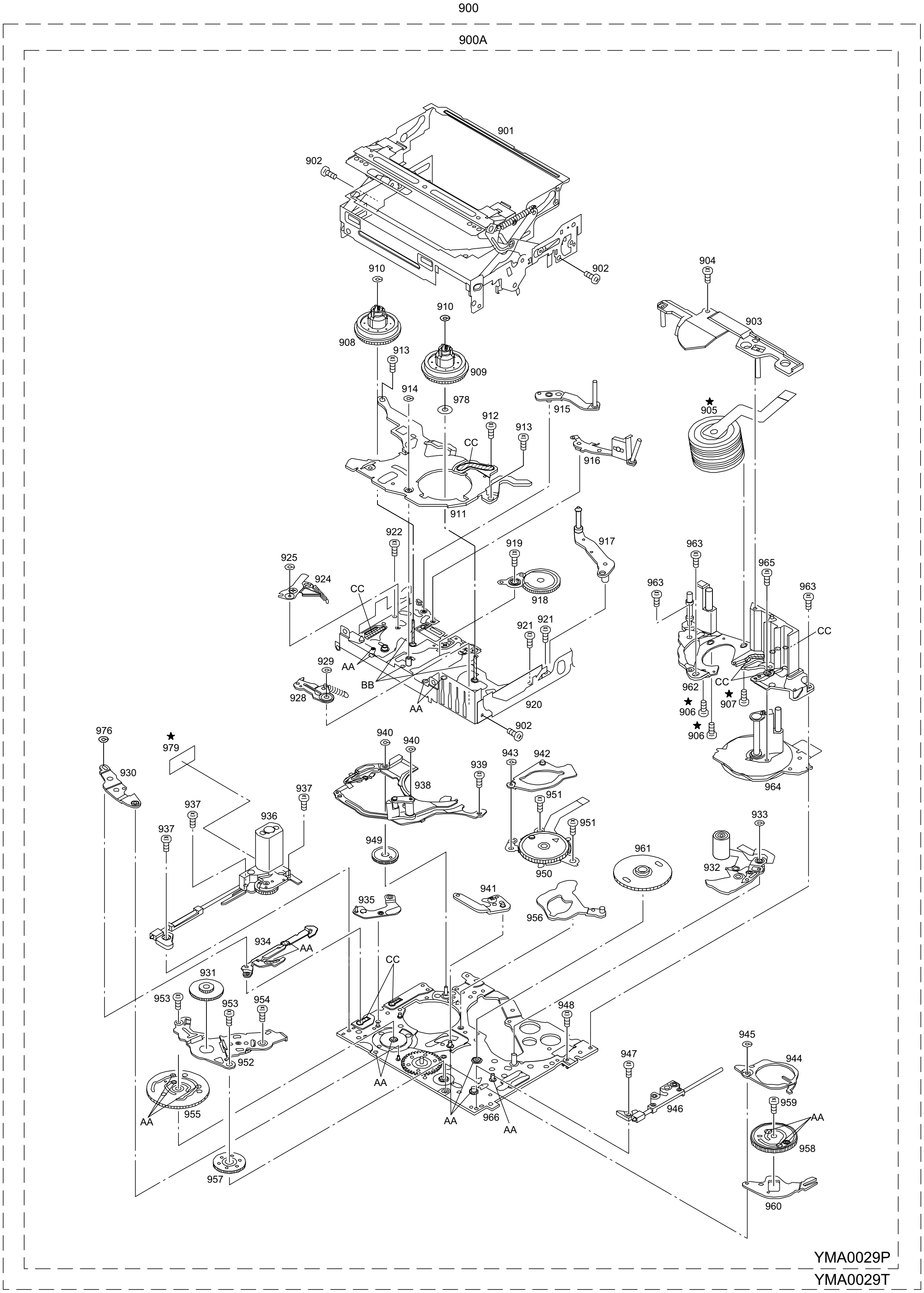
619
620
617
617
624
624
F11
r
MONITOR ASSEMBLY<M5>
604
604H
604F
604H
604E
604E
n
604G
q
p
606
608
604H
604H
618
609
612
612
605
p
613
r
613
MONI-C BOARD ASSEMBLY<02>
F10
F11
624
604J
604A
604B
604C
604D
604D
WITHOUT MEMORY CARD
WITH MEMORY CARD
VF(COLOR) ASSEMBLY<M4>
q
616
614
614
622
623
F10
615


506K
506K
m
506H
j
h
m
506G
506G
506J
506F
h
b
j
k
FRONT BOARD ASSEMBLY<06>

1.3 MECHANISM ASSEMBLY <M3>


900
900A
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978
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912
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CC
★
905
916
911
922
917
919
925
924
963
965
963
963
CC
918
921
921
CC
929
AA
BB
928
AA
920
962
CC
★
906
★
907
902
★
906
976
★
979
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938
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951
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936
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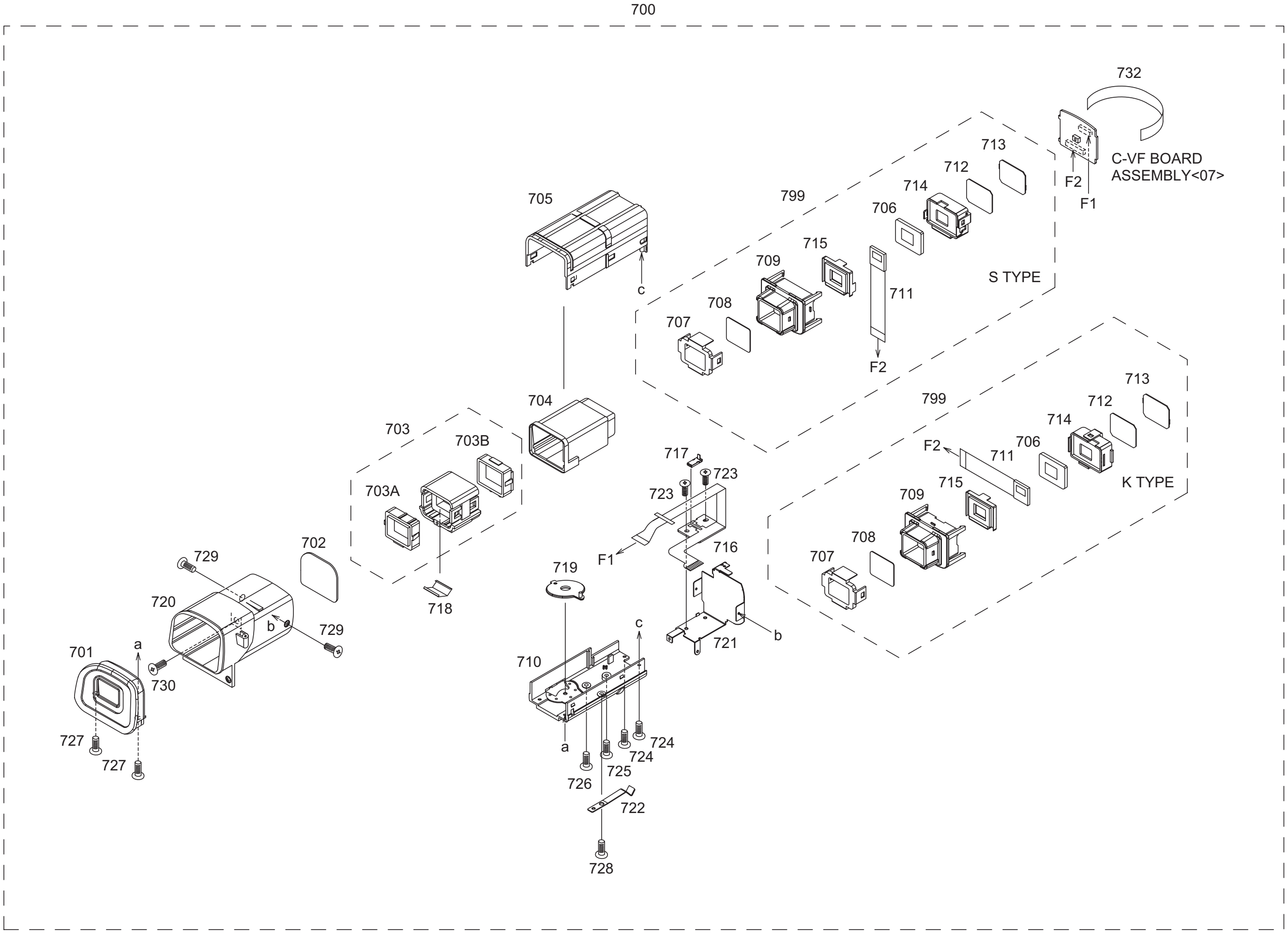
933
949
961
950
932
941
935
956
934
AA
CC
931
953
953
954
948
952
945
947
944
AA
955
AA
966
AA
946
959
AA
958
957
960
YMA0029P
YMA0029T

Classification	Part No.	Symbol in drawing
Grease	KYODO-SH-JB	AA
Oil	YTU94027	BB
Grease (HANARL)	RX-410R	CC

NOTE1: The section marked in AA, BB and CC indicate lubrication and greasing areas.

NOTE2: Mark ★ is not contained in 900A.

1.4 VF(COLOR) ASSEMBLY <M4>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732
C-VF BOARD
ASSEMBLY<07>
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706
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S TYPE
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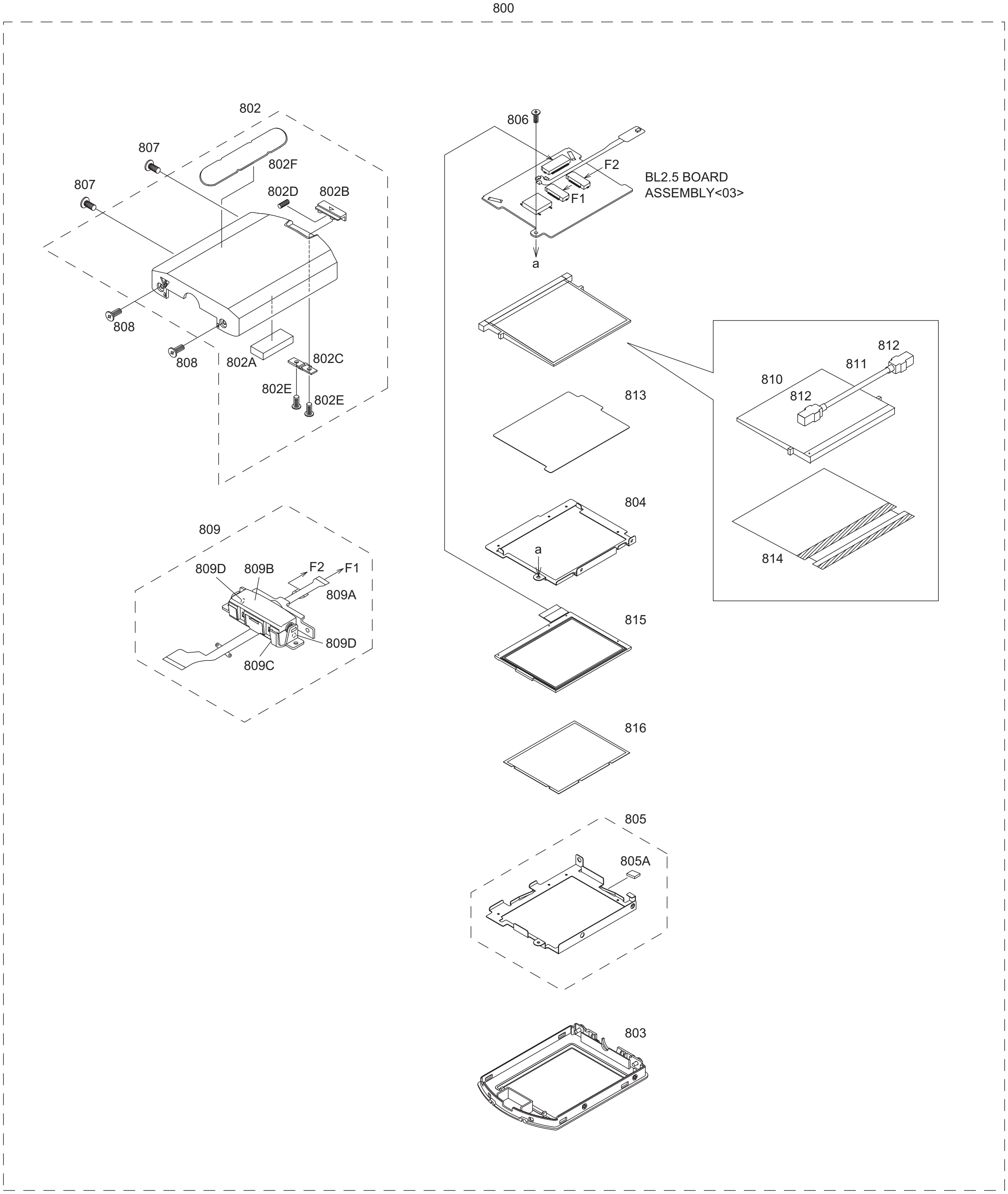
708
707
F2
713
799
712
714
704
F2
711
706
703
703B
717
723
723
715
K TYPE
709
703A
708
702
716
707
729
F1
719
718
720
c
b
729
b
721
701
a
710
730
727
a
724
727
724
726
725
722
728

1.5 MONITOR ASSEMBLY <M5>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802
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802D
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802E
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F2
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BL2.5 BOARD
ASSEMBLY<03>
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812
811
810
812
813
804
a
814
809
809D
809B
F2
F1
809A
809D
809C
815
816
805
805A
803

MODEL	MARK	MODEL	MARK
GR-D32US	A	GR-D72US	C
GR-D71US	B	GR-D74US	D

2. PARTS LIST

PACKING AND ACCESSORY ASSY <M1>

⚠ Symbol No.	Part No.	Part Name	Description	Local
001	LY30023-029A	POLY BAG	JAPAN	
002	LY33696-001B	PACKING CASE	JAPAN	B,C,D
002	LY33696-002B	PACKING CASE	JAPAN	A
003	LY33697-001C	CUSHION		
004	QPA02503505P	POLY BAG	ACC. 25cm x 35cm	
005	QAM0507-001	A/V CABLE		
007	QAM0538-001	USB CABLE	USB	B,C,D
009	QQR0491-002	FERRITE CORE	S	
⚠ 010	LY21103-001A	AC ADAPTER	AP-V14U	
⚠ 010	or LY21154-001A	AC ADAPTER	AP-V15U	
012	LY33693-001C	CAP(HOOD)ASSY		
⚠ 013	LY32566-001A	BATTERY PACK ASSY	BN-V408U-B	
014	LY21105-002A	SHOULDER STRAP		
015	LY21020-001A	REMOCON	RM-V718U	B,C,D
019	QQR0491-002	FERRITE CORE	USB	B,C,D
051	QPA02003506	POLY BAG	DOCUMENT 20cm x 35cm	
052	LY32210-061A	CD ROM ASSY		A
052	LY32210-062A	CD ROM ASSY		B,C,D
⚠ 055	LYT1226-001A	INST BOOK(EN)	(ENGLISH)	C
⚠ 055	LYT1226-002A	INST BOOK(FR)	(FRENCH)	C
⚠ 055	LYT1226-003A	INST BOOK(SP)	(SPANISH)	C
⚠ 055	LYT1227-001A	INST BOOK(EN)	(ENGLISH)	D
⚠ 055	LYT1227-002A	INST BOOK(FR)	(FRENCH)	D
⚠ 055	LYT1227-003A	INST BOOK(SP)	(SPANISH)	D
⚠ 055	LYT1228-001A	INST BOOK(EN)	(ENGLISH)	A
⚠ 055	LYT1228-002A	INST BOOK(FR)	(FRENCH)	A
⚠ 055	LYT1228-003A	INST BOOK(SP)	(SPANISH)	A
⚠ 055	LYT1256-001A	INST BOOK(EN)	(ENGLISH)	B
⚠ 055	LYT1256-002A	INST BOOK(FR)	(FRENCH)	B
⚠ 055	LYT1256-003A	INST BOOK(SP)	(SPANISH)	B
056	LYT1197-001A	INST BOOK(SOFT.EN)	(SOFT.ENGLISH)	B,C,D
056	LYT1197-003A	INST BOOK(SOFT.FR)	(SOFT.FRENCH)	B,C,D
056	LYT1197-005A	INST BOOK(SOFT.SP)	(SOFT.SPANISH)	B,C,D
056	LYT1198-001A	INST BOOK(SOFT.EN)	(SOFT.ENGLISH)	A
056	LYT1198-003A	INST BOOK(SOFT.FR)	(SOFT.FRENCH)	A
056	LYT1198-005A	INST BOOK(SOFT.SP)	(SOFT.SPANISH)	A
060	BT-51005-6	WARRANTY INF.		
061	BT-51034-1	REGIST CARD		
062	BT-52006-2	WARRANTY CARD		
063	LY32210-043A	CD ROM ASSY		
098	LY34145-001B	COVER1(DC PLUG)		
099	LY34146-001B	COVER2(DC PLUG)		

FINAL ASSEMBLY <M2>

⚠ Symbol No.	Part No.	Part Name	Description	Local
103	LY21086-003C	FRONT COVER ASSY		
103A	LY33664-001A	HOOD(SCREW)		
103B	LY33665-001B	BRACKET(HOOD)		
103C	LY33666-001B	WINDOW(IR)		
103D	LY30031-003A	SPECIAL SCREW	BKT-SCREW(x3)	
⚠ 104	LY21088-001C	REAR UNIT ASSY		
105	LY33672-001C	COVER(ZOOM)		
106	LY33673-001B	BRACKET(MECHA)ASSY		
106A	LY42796-003A	BUSH	(x3)	
107	LY33674-001B	BRACKET(OP 1)ASSY		
107A	LY30030-0Y9A	SPACER(A)	(x2)	
107B	LY44376-001A	RUBBER(OP)		
108	LY33676-001B	BRACKET(OP 2)		
109	QUQ105-24X8AA	FPC WIRE	OP-MAIN FF	
110	QUQ105-1202AA	FFC WIRE	MAIN-R FFC	
111	LY30031-0E1A	SPECIAL SCREW	RC-BKARM	
112	LY30031-010A	SPECIAL SCREW	BKHO-BKOP	
113	LY30031-0D4A	SPECIAL SCREW	BKME-BKAR(x4)	
114	LY30031-010A	SPECIAL SCREW	LC-BKOP2	
115	LY30031-010A	SPECIAL SCREW	LC-BKOP1	
116	LY30031-003A	SPECIAL SCREW	HOLZ-LC(x2)	
117	LY30031-011A	SPECIAL SCREW	BKOP-OP	
118	LY30031-010A	SPECIAL SCREW	BKOP-BKME(x2)	
119	LY30032-001A	SPECIAL SCREW	MAIN-BKME	
120	LY30033-001A	SPECIAL SCREW(W)	MAIN-BKME	
121	LY30032-002A	SPECIAL SCREW	BKME-ME(x3)	
122	LY30031-015A	SPECIAL SCREW	PRE-ME(x2)	
123	LY30033-001A	SPECIAL SCREW(W)	MDA-BKME(x2)	
124	LY30031-010A	SPECIAL SCREW	OP1-OP2	
125	LY30031-010A	SPECIAL SCREW	UC-OP1	
126	LY30031-010A	SPECIAL SCREW	UC-OP2	
127	LY30031-021A	SPECIAL SCREW	LC-VF	
128	LY30031-021A	SPECIAL SCREW	VF-RC(x2)	
129	LY30031-028A	SPECIAL SCREW	LC-ZOOM	
130	LY30031-010A	SPECIAL SCREW	UC-BKSP	
131	LY30031-006A	SPECIAL SCREW	COVHI-BKSP	
132	LY33388-002A	SHIELD COVER(PR)		
133	LY44553-001A	SHEET(OP1)	EMC	A
134	LY44550-001A	SHEET(MA1)	EMC	A
201	LY33677-001C	COVER(ADJUST)		
202	LY33678-002B	COVER(JIG)		A
202	LY33678-001B	COVER(JIG)		B,C,D
203	LY33699-001A	ORNAMENT(TOP)		
204	LY21085-002B	COVER(UPPER)		C
204	LY21085-009B	COVER(UPPER)		A,B,D
205	LY40699-002A	LABEL(PUSH)		
206	LY32001-004A	LABEL(HOUSING)		
207	QAM0404-002	MEMORY CARD	MMC 8MB*	D
208	LY30031-008A	SPECIAL SCREW	COVUP-RC	
209	LY30031-008A	SPECIAL SCREW	COVUP-UC	
210	LY30031-010A	SPECIAL SCREW	JIG	
211	LY30031-032A	SPECIAL SCREW	ADJ	
301	LY33085-003A	OP BLOCK ASSY		
301A	LY30724-001B	FOCUS MOTOR UNIT		
301B	LY30723-001B	ZOOM MOTOR UNIT		
301C	PTY33085-001	TAPPING SCREW	(x7)	
301D	PTY31727-116	TAPPING SCREW	(x2)	
301E	PTY33085-006	AUTO IRIS UNIT		
302	LY30018-0E7A	SPECIAL SCREW	(x2)	
303	LY44005-001A	SHEET		
304	LY44120-001A	OPTICAL LPF		
305	LY33288-001A	SPACER		
306	LYH30514-001A	CCD BASE ASSY		
352	LY44554-001A	BUSTERAID	EMC	
353	LY30030-061A	SPACER(A)	EMC	

***NOTE:**
DATA FILE is not contained in MEMORY CARD of the service part.

UPPER ASSEMBLY <M2>

⚠ Symbol No.	Part No.	Part Name	Description	Local
⚠ 604	LY21084-006D	UPPER CASE ASSY		B,C,D
⚠ 604	LY21084-007D	UPPER CASE ASSY		A
604A	LY33662-001D	COVER(SD)		B,C,D
604B	LY33663-001C	HOLDER(SD)		B,C,D
604C	LY44374-001A	SHAFT(SD)		B,C,D
604D	LY30031-007A	SPECIAL SCREW	HOLDSD-UC	
604E	LY42350-003A	FOOT	(x2)	
604F	LY33657-002A	CAUTION LABEL(VF)		
604G	LY33658-001C	BASE		
604H	LY30031-006A	SPECIAL SCREW	UC-BASE(x4)	
604J	LY33656-001C	COVER(DUMMY)		A
605	LY33659-001C	BRACKET(HINGE)		
606	LY33679-001D	KNOB(SLIDE)	SW	B,C,D
607	LY33660-001B	COVER(HINGE)		
608	QAS0157-001	SPEAKER		
609	LY33661-001A	BRACKET(SPK)		
612	LY30031-003A	SPECIAL SCREW	BKTSPK-UC(x2)	
613	LY30031-003A	SPECIAL SCREW	BKTHIN-UC(x2)	
614	LY30031-008A	SPECIAL SCREW	M.PWB-UC(x2)	
615	LY30031-008A	SPECIAL SCREW	VF-UC	
616	LY30031-002A	SPECIAL SCREW	VF-UC	
617	LY30031-009A	SPECIAL SCREW	HIN-BKTHIN(x2)	
618	LY30031-006A	SPECIAL SCREW	UC-BKTHIN	
619	LY30031-006A	SPECIAL SCREW	COVHIN-BKT(x2)	
620	LY30031-002A	SPECIAL SCREW	COVHIN-UC	
622	LY44555-001A	SHEET(MO)	MONI_C PWB	

MODEL	MARK	MODEL	MARK
GR-D32US	A	GR-D72US	C
GR-D71US	B	GR-D74US	D

⚠ Symbol No.	Part No.	Part Name	Description	Local
623	LY30030-0Z3A	SPACER(A)		
624	LY30031-038A	SPECIAL SCREW	M.PCB-UC(x3)	

LOWER ASSEMBLY <M2>

⚠ Symbol No.	Part No.	Part Name	Description	Local
500	LU04D102E	LOWER UNIT ASSY		
502	LY21078-002C	LOWER CASE ASSY		
502A	LY33639-001A	SHIELD PLATE(MIC)		
502B	LY30031-016A	SPECIAL SCREW	LC-SHLD	
503	LY21079-001D	ARM ASSY		
503A	LY30002-046B	COMPRESION SPRING	(x2)	
503B	LY43973-001A	TENSION SPRING		
503C	LY33641-001A	BRACKET(REAR)		
503D	LY30031-001A	SPECIAL SCREW	BKTR-ARM(x2)	
504	LY10467-001A	ZOOM UNIT		
505	LY33642-001B	BRACKET(ZOOM)		
506	LY21082-002B	CASSETTE COVER ASSY		
506A	LY33643-001D	KNOB(LOCK)C		
506B	LY33644-001A	HOLDER(LOCK)C		
506C	LY33645-001C	HOOK(G.BELT)		
506D	LY33647-001B	BRACKET(G.BELT)		
506E	LY21083-002A	GRIP BELT		
506F	LY30031-002A	SPECIAL SCREW	C.COV-HOOK	
506G	QYSLSF2040RA	TAP SCREW	C.CO-BKT(G)(x2)	
506H	LY30031-029A	SPECIAL SCREW	C.CO-BKT(G)	
506J	LY30031-003A	SPECIAL SCREW	C.CO-KNOB	
506K	LY30031-004A	SPECIAL SCREW	BKT(GB-GB)(x2)	
507	LY33648-001C	COVER(MIC)ASSY		
508	LY33651-001A	PLATE(MIC)		
509	LY33965-001A	MIC		
510	LY30031-003A	SPECIAL SCREW	BKARM-L.C(x4)	
511	LY30031-0D9A	SPECIAL SCREW	LC-BKARM	
512	LY30031-003A	SPECIAL SCREW	ZOO-L.C	
513	LY30031-003A	SPECIAL SCREW	BKZO-LC	
514	LY30031-005A	SPECIAL SCREW	PLTM-SHLD	
515	LY30031-005A	SPECIAL SCREW	COVM-SHLD	
516	LY30031-037A	SPECIAL SCREW	ARM-CAS(x2)	
517	LY30031-021A	SPECIAL SCREW	POW-CAS	
518	LY30031-003A	SPECIAL SCREW	BKRE-CAS(x2)	
519	LY30031-0D8A	SPECIAL SCREW	CAS-ARM(x2)	
520	LY30031-0D9A	SPECIAL SCREW	FPWB-BKARM(x2)	
521	LY30030-0Y4A	SPACER(A)		
522	LY30031-003A	SPECIAL SCREW	POW-CAS	

MECHANISM ASSEMBLY <M3>

⚠ Symbol No.	Part No.	Part Name	Description	Local
900	YMA0029T	MECHA(A)ASSY	Y/E Y07442	
900A	YMA0029P	MECHA(A)ASSY	JVM/BJVC	
901	LY32870-001P	CASSETTEHOUSING ASSY		
902	YQ43893-8	MINI SCREW	(x3)	
903	LYH30420-001A	UPPER BASE ASSY		
904	QYSPSPU1425M	SCREW	M1.4 x 2.5mm	
905	YDV2102B	DRUM ASSY	M/B SET022	
906	LY42820-001A	DAMP.SCREW ASSY	JVM/BJVC(x2)	
907	LY42820-002A	DAMP.SCREW ASSY	JVM/BJVC	
908	LY31538-001F	REEL DISK ASSY		
909	LY31538-002H	REEL DISK ASSY		
910	YQ44246	SLIT WASHER	(x2)	
911	LY10372-001H	REEL COVER ASSY		
912	LY42120-002A	MINI SCREW		
913	LY41945-003A	MINI SCREW	(x2)	
914	YQ44246	SLIT WASHER		
915	LY43725-001F	TENSION ARM ASSY		
916	LYH40269-001A	SLANT POLE ARM ASSY		
917	LY43731-001F	TU ARM ASSY		
918	LY31531-001E	SWING ARM ASSY		
919	YQ43893-9	MINI SCREW		
920	LYH30424-001A	SLIDE DECK FINAL ASSY		
921	YQ43893	MINI SCREW	(x2)	
922	LY43023-001A	MINI SCREW		
924	LYH30419-001A	PAD ARM ASSY		
925	YQ44246	SLIT WASHER		
928	LYH40270-001A	TU BRAKE ASSY		
929	YQ44246	SLIT WASHER		
930	LY43684-001B	TENSION CONTROL LEVER ASSY		
931	LY32861-001A	CENTER GEAR		
932	LY31516-001H	PINCH ROLLER ARM FINAL ASSY		
933	YQ44246	SLIT WASHER		
934	LY43681-001A	TENSION CONTROL PLATE ASSY		
935	LY43687-001A	BRAKE CONTROL LEVER ASSY		
936	LYH30421-001A	MOTOR BRACKET ASSY		
937	YQ43893	MINI SCREW	(x3)	
938	LYH30422-001A	GUIDE RAIL ASSY		
939	YQ43893	MINI SCREW		
940	YQ44246	SLIT WASHER	(x2)	
941	LY32843-001D	SLIDE LEVER2 ASSY		
942	LY43690-001A	LOADING PLATE ASSY		
943	YQ44246	SLIT WASHER		
944	LY32858-001B	EJECT LEVER		
945	YQ44246	SLIT WASHER		
946	LYH40271-001A	BASE R ASSY		
947	YQ43893	MINI SCREW		
948	LY41945-001B	MINI SCREW		
949	LY43665-001A	MODE GEAR		
950	QSW0876-004	ROTARY ENCODER		
951	YQ43893	MINI SCREW	(x2)	
952	LY32860-001D	GEAR COVER ASSY		
953	YQ43893	MINI SCREW	(x2)	
954	YQ43893-4	MINI SCREW		
955	LY43676-001A	MAIN CAM ASSY		
956	LY41941-001B	SLIDE ARM ASSY		
957	LY43678-001A	CONNECT GEAR 2		
958	LY43679-001B	SUB CAM ASSY		
959	LY42120-001A	MINI SCREW		
960	LY43692-001A	CONTROL ARM ASSY		
961	LY32859-001A	REEL GEAR 1		
962	LY31508-004D	DRUM BASE ASSY		
963	QYSPSPU1425M	MINI SCREW	(x3)	
964	QAR0142-001	CAPSTAN MOTOR		
965	YQ43893	MINI SCREW		
966	LY10367-001K	MAIN DECK ASSY		
976	YQ44246	SLIT WASHER		
978	LY42047-005A	WASHER		
979	LY44502-001A	SPACER	JVM/BJVC	

VF(COLOR) ASSEMBLY <M4> [S TYPE]

NOTE :

There are two types of VF(COLOR) ASSEMBLY used for this model: S type and K type.
For methods to distinguish the two types, see Cover Page.

⚠ Symbol No.	Part No.	Part Name	Description	Local
700	VU04D101C	VF UNIT ASSY		
701	LY33690-001C	EYE CUP		
702	LY43961-001B	SHEET(LENS)		
703	LY32472-001A	LENS ASSY		
703A	LY43356-001A	LENS(A)		
703B	LY43357-001A	LENS(B)		
704	LY33688-001A	GUIDE LENS(VF)		
705	LY21095-001C	UPPER CASE(VF)		
706	LY43960-001A	CUSHION 2(LCD)		
707	LY32997-001A	SHEET HOLD(VF)		
708	LY43953-001A	SHEET 1(POLA)		
709	LY33003-001C	HOLDER LCD2(VF)		
710	LY21094-001C	BOTTOM CASE(VF)		
711	QLD0266-001	LCD MODULE		
712	LY43954-001A	SHEET 2(POLA)		
713	LY43959-001A	SHEET 2(DIFF)		
714	LY33004-001A	LCD HOLD 2(VF)		
715	LY33047-001A	GUIDE(LCD)2		
716	QAL0523-001	FPC	VF-FPC	
717	NSW0200-001X	LEVER SWITCH	TEZUKE	
718	LY43868-001A	SPRING(LENS)		

MODEL	MARK	MODEL	MARK
GR-D32US	A	GR-D72US	C
GR-D71US	B	GR-D74US	D

⚠ Symbol No.	Part No.	Part Name	Description	Local
719	LY33689-001C	LEVER(LENS)		
720	LY21096-001C	HOLDER(VF)		
721	LY33691-001A	BRACKET(VF)		
722	LY33692-001A	SPRING(VF)		
723	LY30031-016A	SPECIAL SCREW	PWB-BKT(x2)	
724	LY30031-031A	SPECIAL SCREW	BC-UC(x2)	
725	LY30031-030A	SPECIAL SCREW	BC-HLDLCD	
726	LY30031-031A	SPECIAL SCREW	BC-GUID	
727	LY30032-005A	SPECIAL SCREW	EYE-GUID(x2)	
728	LY30031-026A	SPECIAL SCREW	SPR-LC	
729	LY30031-016A	SPECIAL SCREW	HLDVF-BKT(x2)	
730	LY30031-010A	SPECIAL SCREW	HLDVF-BKT	
732	LY30030-0Y5A	SPACER(A)		
799	LY33722-001A	LCD UNIT(COLOR)ASSY		

VF(COLOR) ASSEMBLY <M4> [K TYPE]

NOTE :

There are two types of VF(COLOR) ASSEMBLY used for this model: S type and K type.

For methods to distinguish the two types, see Cover Page.

⚠ Symbol No.	Part No.	Part Name	Description	Local
700	VU04D102A	VF UNIT ASSY		
701	LY33690-001C	EYE CUP		
702	LY43961-001B	SHEET(LENS)		
703	LY32472-001A	LENS ASSY		
703A	LY43356-001A	LENS(A)		
703B	LY43357-001A	LENS(B)		
704	LY33688-001B	GUIDE LENS(VF)		
705	LY21095-001C	UPPER CASE(VF)		
706	LY43957-001A	CUSHION(LCD)		
707	LY32997-001A	SHEET HOLD(VF)		
708	LY43953-001A	SHEET 1(POLA)		
709	LY32994-001B	HOLDER LCD(VF)		
710	LY21094-001D	BOTTOM CASE(VF)		
711	QLD0306-001	LCD MODULE		
712	LY43954-001A	SHEET 2(POLA)		
713	LY43955-001A	SHEET (DIFF)		
714	LY32998-001A	LCD HOLD(VF)		
715	LY33002-001B	GUIDE(LCD)		
716	QAL0523-001	FPC	VF-FPC	
717	NSW0200-001X	LEVER SWITCH	TEZUKE	
718	LY43868-001A	SPRING(LENS)		
719	LY33689-001C	LEVER(LENS)		
720	LY21096-001C	HOLDER(VF)		
721	LY33691-001A	BRACKET(VF)		
722	LY33692-001A	SPRING(VF)		
723	LY30031-016A	SPECIAL SCREW	PWB-BKT(x2)	
724	LY30031-031A	SPECIAL SCREW	BC-UC(x2)	
725	LY30031-030A	SPECIAL SCREW	BC-HLDLCD	
726	LY30031-031A	SPECIAL SCREW	BC-GUID	
727	LY30032-005A	SPECIAL SCREW	EYE-GUID(x2)	
728	LY30031-026A	SPECIAL SCREW	SPR-LC	
729	LY30031-016A	SPECIAL SCREW	HLDVF-BKT(x2)	
730	LY30031-010A	SPECIAL SCREW	HLDVF-BKT	
732	LY30030-0Y5A	SPACER(A)		
799	LY33821-001A	LCD UNIT ASSY		

MONITOR ASSEMBLY <M5>

⚠ Symbol No.	Part No.	Part Name	Description	Local
⚠ 800	MU04D103E	MONITOR UNIT ASSY		B,C,D
⚠ 800	MU04D104E	MONITOR UNIT ASSY		A
⚠ 802	LY21092-003F	MONITOR COVER ASSY		B,C,D
⚠ 802	LY21092-004F	MONITOR COVER ASSY		A
802A	LY30030-0Z1B	SPACER(A)		
802B	LY33680-001B	KNOB(LOCK)M		
802C	LY33681-001B	HOLDER(LOCK)M		
802D	LY30002-022A	COMPRESION SPRING		
802E	LY30031-008A	SPECIAL SCREW	(x2)	
802F	LY44428-001C	POP STICKER(1)		
803	LY10471-001C	MONITOR CASE		
804	LY33683-001A	LCD FRAME(MONI)		
805	LY33969-001A	SHIELD CASE ASSY		
805A	LY30030-0Z8A	SPACER(A)	FOR S.CASE	
806	LY30033-001A	SPECIAL SCREW(W)	M.PWB-S.C	
807	LY30031-0E2A	SPECIAL SCREW	MCOV-MCAS(x2)	
808	LY30031-013A	SPECIAL SCREW	MCOV-HING(x2)	
809	LY33685-001B	MONITOR HINGE ASSY		
809A	QAL0522-001	FPC	MONI-FPC	
809B	LY33686-001B	HINGE COVER(U)		
809C	LY33687-001B	HINGE COVER(L)		
809D	LY30018-0K1A	SPECIAL SCREW	HINC.U-L(x2)	A
809D	LY30031-014A	SPECIAL SCREW	HINC.U-L(x2)	B,C,D
810	LY44481-001A	LIGHT SCREEN		
811	QLL0142-001	LAMP		
812	LY43936-001A	HOLDER(LAMP)	(x2)	
813	LY33684-001A	SHEET(DIFF.)		
814	LY43396-001A	SHEET(REFLECT)		
815	QLD0294-001	LCD MODULE		
816	LY44495-001D	SHEET(MONI.)		

MAIN BOARD ASSEMBLY <01>

⚠ Symbol No.	Part No.	Part Name	Description	Local
PW1	YB10449A-01	MAIN BOARD ASSY		A
PW1	YB10444C-02	MAIN BOARD ASSY		B,C,D
IC1001	MN103S33NJP	IC(MICRO C ROM)	MASK	
IC1001 or	MN103SF33NY4JP	IC(MICRO C ROM)	FLASH	
IC1002	MB90097PFV149-X	IC(MICRO C ROM)	MB90099	
IC1003	SN74AHC1G00K-X	IC		
IC1003 or	SN74AHC1G00DC-X	IC		
IC1004	NJU7108F3-X	IC		
IC1004 or	TC75S56FU-X	IC		
IC1005	X25330S8I-2.5-X	IC		
IC1005 or	AT25320N-10SI-X	IC	ATMEL	
IC1005 or	M95320-WMN6W-X	IC	ST MICRO	
IC1005 or	CAT25C32SI-X	IC	CATALYST	
IC1006	RS5C314-X	IC		
IC1007	IC-PST3423U-X	IC		
IC1007 or	S-80823CNNB-X	IC		
IC1101	BA10358F-XE	IC	W/B SENS	
IC1101 or	LM358DR-X	IC	W/B SENS	
IC1151	RPM7138	IR DETECT UNIT	IR SENS	
IC1151 or	RPM7138-S	IR DETECT UNIT	IR SENS	
IC2101	AK5355VT-X	IC		B,C,D
IC2201	AK4564VQ	IC		
IC3001	JCY0152	IC	JCY0152	
IC3002	BU2501FV-X	IC		
IC3005	JCY0136-X	IC	JCY0136-X	
IC3201	JCP8075	IC		
IC3701	BA7665AFS-X	IC		
IC3731	MM1504XN-X	IC	MM1504	B,C,D
IC4201	HD49340NP-X	IC		
IC4202	MM1613AN-X	IC		
IC4301	JCY0200	IC		
IC4802	LM324PW-X	IC	HALL AMP	
IC4804	LM358AD-X	IC	DRIVE AMP	
IC4804 or	LM358AD623-X	IC	DRIVE AMP	
IC4807	SN74AHC2G66U-X	IC	DUMP CUT	B,C,D
IC4851	UPD16879GS-X	IC	F/Z_MDA	
IC5501	JCY0185	IC		
IC6001	FA3698F	IC		
IC6801	R1224N102G-X	IC		
IC8001	TMS320DSC24GHKL	IC	DSC24	B,C,D
IC8002	K4S643232F-TC60	IC	SDRAM	B,C,D
IC8002 or	HY57643220CT55	IC	SDRAM	B,C,D
IC8002 or	HY57643220CT7	IC	SDRAM	B,C,D
IC8003	MR27T1602F14DTN	IC(MICRO C ROM)	WRITE ONCE	B,C,D
IC8004	S-80842CNNB-W	IC	USB DET	B,C,D
IC8006	BU2360FV-X	IC	A.VCO W	B,C,D
IC8301	ISP1181ABS	IC	USB DRV	B,C,D
Q1001	DTA114EE-X	DIGI TRANSISTOR		

MODEL	MARK	MODEL	MARK
GR-D32US	A	GR-D72US	C
GR-D71US	B	GR-D74US	D

⚠ Symbol No.	Part No.	Part Name	Description	Local
Q1001	or PDTA114EE-X	DIGI TRANSISTOR		
Q1001	or RN2102-X	DIGI TRANSISTOR		
Q1001	or BCR183T-X	DIGI TRANSISTOR		
Q1002	UMC3N-W	DIGI TRANSISTOR		
Q1003	UMC3N-W	DIGI TRANSISTOR		
Q1004	UMC3N-W	DIGI TRANSISTOR		
Q1005	DTC143XE-X	DIGI TRANSISTOR		
Q1006	DTC144EE-X	DIGI TRANSISTOR		
Q1006	or UN9213J-X	DIGI TRANSISTOR		
Q1006	or RN1104-X	DIGI TRANSISTOR		
Q1006	or PDTC144EE-X	DIGI TRANSISTOR		
Q1007	2SC4617/QR/-X	TRANSISTOR		
Q1007	or BC847BT-X	TRANSISTOR		
Q1008	DTC124EE-X	DIGI TRANSISTOR		
Q1008	or PDTC124EE-X	DIGI TRANSISTOR		
Q1008	or BCR141T-X	DIGI TRANSISTOR		
Q1009	2SJ347-X	MOS FET		
Q1010	DTC144EE-X	DIGI TRANSISTOR		
Q1010	or UN9213J-X	DIGI TRANSISTOR		
Q1010	or RN1104-X	DIGI TRANSISTOR		
Q1010	or PDTC144EE-X	DIGI TRANSISTOR		
Q1101	RPM-22PB	PHOTO TRANSISTOR		
Q2202	UMX1N-W	PAIR TRANSISTOR		
Q2202	or BC847S-X	PAIR TRANSISTOR		
Q2401	2SC4617/QR/-X	TRANSISTOR		
Q2401	or BC847BT-X	TRANSISTOR		
Q2403	2SC4617/QR/-X	TRANSISTOR		
Q2403	or BC847BT-X	TRANSISTOR		
Q3001	2SC4617/RS/-X	TRANSISTOR		
Q3001	or BC847BT-X	TRANSISTOR		
Q3002	2SC4617/RS/-X	TRANSISTOR		
Q3002	or BC847BT-X	TRANSISTOR		
Q3701	UMT1N-W	PAIR TRANSISTOR		
Q3701	or XP4401-W	TRANSISTOR		
Q3701	or BC856S-X	PAIR TRANSISTOR		
Q3702	BC847PN-X	PAIR TRANSISTOR		
Q3704	2SA1774/RS/-X	TRANSISTOR		
Q3704	or BC857BT-X	TRANSISTOR		
Q3705	UMT1N-W	PAIR TRANSISTOR		
Q3705	or XP4401-W	TRANSISTOR		
Q3705	or BC856S-X	PAIR TRANSISTOR		
Q3731	2SC4617/RS/-X	TRANSISTOR		B,C,D
Q3731	or 2SD2216J/RS/-X	TRANSISTOR		B,C,D
Q3731	or BC847BT-X	TRANSISTOR		B,C,D
Q3732	DTC144EE-X	DIGI TRANSISTOR		B,C,D
Q3732	or UN9213J-X	DIGI TRANSISTOR		B,C,D
Q3732	or BCR148T-X	DIGI TRANSISTOR		B,C,D
Q3733	BC847PN-X	PAIR TRANSISTOR		B,C,D
Q3734	2SC4617/RS/-X	TRANSISTOR		B,C,D
Q3734	or 2SD2216J/RS/-X	TRANSISTOR		B,C,D
Q3734	or BC847BT-X	TRANSISTOR		B,C,D
Q3735	BC847PN-X	PAIR TRANSISTOR		B,C,D
Q4801	2SC4655/BC/-X	TRANSISTOR	HALL DRIVE	
Q4802	2SC4617/RS/-X	TRANSISTOR	2SC4617/RS	B,C,D
Q4802	or BC847BT-X	TRANSISTOR		B,C,D
Q4802	or 2SD2216J/RS/-X	TRANSISTOR		B,C,D
Q4803	DTC144EE-X	DIGI TRANSISTOR	DTC144EE	B,C,D
Q4803	or BCR148T-X	DIGI TRANSISTOR		B,C,D
Q4804	DTA144EE-X	DIGI TRANSISTOR	DTA144EE	B,C,D
Q4804	or BCR198T-X	DIGI TRANSISTOR		B,C,D
Q4805	DTA143EE-X	DIGI TRANSISTOR	DTA143EE	B,C,D
Q4805	or BCR162T-X	DIGI TRANSISTOR		B,C,D
Q4806	2SC4617/QR/-X	TRANSISTOR	2SC4617/QR	
Q4806	or BC847BT-X	TRANSISTOR		
Q4806	or 2SD2216J/RS/-X	TRANSISTOR	2SD2216J/R	B,C,D
Q4851	2SC4617/RS/-X	TRANSISTOR		
Q4851	or BC847BT-X	TRANSISTOR		
Q6101	QS6U24-W	MOS FET		
Q6102	2SA1577/QR/-X	TRANSISTOR		
Q6102	or BC807-25W-X	TRANSISTOR		
Q6201	QS6U24-W	MOS FET		
Q6301	QS6U24-W	MOS FET		
Q6302	2SA1577/QR/-X	TRANSISTOR		
Q6302	or BC807-25W-X	TRANSISTOR		
Q6303	2SC4617/QR/-X	TRANSISTOR		
Q6303	or BC847BT-X	TRANSISTOR		
Q6401	QS6U24-W	MOS FET		
Q6501	QS6U24-W	MOS FET		

⚠ Symbol No.	Part No.	Part Name	Description	Local
Q6601	SSM3J14T-X	MOS FET		
Q6603	2SA1577/QR/-X	TRANSISTOR		
Q6603	or BC807-25W-X	TRANSISTOR		
Q6604	DTC144EE-X	DIGI TRANSISTOR		
Q6604	or BCR148T-X	DIGI TRANSISTOR		
Q6605	UMT1N-W	PAIR TRANSISTOR		
Q6605	or HN1A01FU/G/-X	PAIR TRANSISTOR		
Q6605	or BC856S-X	PAIR TRANSISTOR		
Q6606	2SC4617/QR/-X	TRANSISTOR		
Q6606	or BC847BT-X	TRANSISTOR		
Q6701	SSM3J14T-X	MOS FET		
Q6801	FML9-W	TRANSISTOR		
Q8002	2SA1774/QR/-X	TRANSISTOR	USB DET W	B,C,D
Q8002	or BC857BT-X	TRANSISTOR		B,C,D
D1001	DA221-X	DIODE ARRAY		
D1001	or MA133-X	SI DIODE		B,C,D
D3001	EC2C01C-TR-X	VARI CAP DIODE		
D3002	EC2C01C-TR-X	VARI CAP DIODE		
D3003	EC2C01C-TR-X	VARI CAP DIODE		
D3004	BAT165-X	SB DIODE		
D4301	MA2Z748-X	SB DIODE		
D5501	BAS16-03W-X	SI DIODE		
D6601	RB481K-X	SB DIODE		
D6602	RB480Y-W	SB DIODE		
D6701	RB160M-30-X	SB DIODE		
D6702	RB160M-30-X	SB DIODE		
⚠ D6801	RB715F-X	SB DIODE		
⚠ D6801	or BAS40-05W-X	SB DIODE		
D8001	BAS170W-X	SB DIODE	USB DET	B,C,D
C1001	NDCA1HJ-4R0W	C CAPACITOR	4pF 50V J	
C1002	NDCA1HJ-4R0W	C CAPACITOR	4pF 50V J	
C1004	NCFA1AZ-104W	C CAPACITOR	0.1uF 10V Z	
C1005	NCFA1AZ-104W	C CAPACITOR	0.1uF 10V Z	
C1007	NCFA1AZ-104W	C CAPACITOR	0.1uF 10V Z	
C1008	NCFA1AZ-104W	C CAPACITOR	0.1uF 10V Z	
C1009	NCFA1AZ-104W	C CAPACITOR	0.1uF 10V Z	
C1010	NCFA1AZ-104W	C CAPACITOR	0.1uF 10V Z	
C1011	NCFA1AZ-104W	C CAPACITOR	0.1uF 10V Z	
C1012	NCFA1AZ-104W	C CAPACITOR	0.1uF 10V Z	
C1013	NCFA1AZ-104W	C CAPACITOR	0.1uF 10V Z	
C1014	NCFA1AZ-104W	C CAPACITOR	0.1uF 10V Z	
C1015	NCFA1AZ-104W	C CAPACITOR	0.1uF 10V Z	
C1019	NCFA1HZ-103W	C CAPACITOR	0.01uF 50V Z	
C1020	NCBA1EK-682W	C CAPACITOR	6800pF 25V K	
C1021	NCBA1EK-682W	C CAPACITOR	6800pF 25V K	
C1022	NCFA1HZ-103W	C CAPACITOR	0.01uF 50V Z	
C1024	NCFA1HZ-103W	C CAPACITOR	0.01uF 50V Z	
C1025	NCFA1HZ-103W	C CAPACITOR	0.01uF 50V Z	
C1029	NCFA1HZ-103W	C CAPACITOR	0.01uF 50V Z	
C1030	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
C1032	NCFA1HZ-103W	C CAPACITOR	0.01uF 50V Z	
C1035	NCFA1HZ-103W	C CAPACITOR	0.01uF 50V Z	
C1036	NCFA1AZ-104W	C CAPACITOR	0.1uF 10V Z	
C1037	NCFA1HZ-103W	C CAPACITOR	0.01uF 50V Z	
C1038	NCFA1HZ-103W	C CAPACITOR	0.01uF 50V Z	
C1039	NCFA1HZ-103W	C CAPACITOR	0.01uF 50V Z	
C1040	NDCA1HJ-100W	C CAPACITOR	10pF 50V J	
C1041	NCFA1AZ-104W	C CAPACITOR	0.1uF 10V Z	
C1042	NCFA1AZ-104W	C CAPACITOR	0.1uF 10V Z	
C1043	NCFA1AZ-104W	C CAPACITOR	0.1uF 10V Z	
C1044	NDCA1HJ-470W	C CAPACITOR	47pF 50V J	
C1045	NDCA1HJ-470W	C CAPACITOR	47pF 50V J	
C1046	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C1047	NCFA1HZ-103W	C CAPACITOR	0.01uF 50V Z	
C1048	NCFA1HZ-103W	C CAPACITOR	0.01uF 50V Z	
C1049	NCFA1HZ-103W	C CAPACITOR	0.01uF 50V Z	
C1050	NCFA1HZ-103W	C CAPACITOR	0.01uF 50V Z	
C1051	NCB31CK-223X	C CAPACITOR	0.022uF 16V K	
C1052	NCB31CK-223X	C CAPACITOR	0.022uF 16V K	
C1053	NCB31CK-223X	C CAPACITOR	0.022uF 16V K	
C1054	NCB31CK-223X	C CAPACITOR	0.022uF 16V K	
C1055	NCFA1AZ-104W	C CAPACITOR	0.1uF 10V Z	
C1064	NBE20JM-226X	TA E CAPACITOR	22uF 6.3V M	
C1102	NBE20JM-226X	TA E CAPACITOR	22uF 6.3V M	
C1103	NCBA1CK-223W	C CAPACITOR	0.022uF 16V K	
C1104	NCBA1CK-223W	C CAPACITOR	0.022uF 16V K	

MODEL	MARK	MODEL	MARK
GR-D32US	A	GR-D72US	C
GR-D71US	B	GR-D74US	D

⚠ Symbol No.	Part No.	Part Name	Description	Local
C1105	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
C1106	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C1107	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C2105	NCBA1HK-222W	C CAPACITOR	2200pF 50V K	B,C,D
C2106	NCBA1HK-222W	C CAPACITOR	2200pF 50V K	B,C,D
C2107	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	B,C,D
C2108	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	B,C,D
C2109	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	B,C,D
C2110	NBE20JM-475X	TA E CAPACITOR	4.7uF 6.3V M	B,C,D
C2201	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C2202	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C2203	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C2204	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C2205	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C2209	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C2210	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C2211	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	B,C,D
C2212	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	B,C,D
C2213	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C2214	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C2215	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C2216	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C2217	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C2218	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C2223	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C2224	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C2401	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
C2402	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
C2403	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
C2404	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
C2405	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C2406	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
C2603	NCBA1CK-223W	C CAPACITOR	0.022uF 16V K	
C2604	NCBA1CK-223W	C CAPACITOR	0.022uF 16V K	
C2605	NCBA1EK-472W	C CAPACITOR	4700pF 25V K	
C2606	NCBA1EK-472W	C CAPACITOR	4700pF 25V K	
C2607	NCBA1HK-102W	C CAPACITOR	1000pF 50V K	
C2608	NCBA1HK-102W	C CAPACITOR	1000pF 50V K	
C2611	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C2612	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C2613	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C2614	NDCA1HJ-101W	C CAPACITOR	100pF 50V J	
C2615	NDCA1HJ-101W	C CAPACITOR	100pF 50V J	
C3001	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
C3003	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C3005	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
C3006	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C3007	NBE20GM-476X	TA E CAPACITOR	47uF 4V M	
C3008	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
C3009	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C3011	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C3012	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C3013	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C3015	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C3016	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C3017	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C3020	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C3021	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C3022	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C3023	NDCA1HJ-330W	C CAPACITOR	33pF 50V J	
C3024	NCBA1HK-102W	C CAPACITOR	1000pF 50V K	
C3025	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C3026	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C3027	NCBA1EK-472W	C CAPACITOR	4700pF 25V K	
C3028	NDCA1EJ-271W	C CAPACITOR	270pF 25V J	
C3029	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C3030	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C3031	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C3032	NCBA1HK-102W	C CAPACITOR	1000pF 50V K	
C3033	NDCA1HJ-220W	C CAPACITOR	22pF 50V J	
C3036	NDCA1HJ-8R0W	C CAPACITOR	8pF 50V J	
C3037	NDCA1HJ-8R0W	C CAPACITOR	8pF 50V J	
C3038	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C3039	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C3042	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C3043	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C3044	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C3045	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	

⚠ Symbol No.	Part No.	Part Name	Description	Local
C3046	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C3047	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C3048	NCB31CK-473X	C CAPACITOR	0.047uF 16V K	
C3049	NCBA1HK-222W	C CAPACITOR	2200pF 50V K	
C3050	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C3055	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C3059	NBE20GM-226X	TA E CAPACITOR	22uF 4V M	
C3060	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C3064	NCBA1HK-102W	C CAPACITOR	1000pF 50V K	
C3066	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C3067	NCBA1HK-102W	C CAPACITOR	1000pF 50V K	
C3069	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C3201	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
C3202	NCB21AK-105X	C CAPACITOR	1uF 10V K	
C3203	NCB21AK-105X	C CAPACITOR	1uF 10V K	
C3204	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
C3205	NBE20GM-476X	TA E CAPACITOR	47uF 4V M	
C3206	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C3207	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C3208	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C3209	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C3210	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C3211	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C3212	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C3213	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C3214	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C3215	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C3216	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C3217	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C3218	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C3219	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C3220	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C3221	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C3222	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C3223	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C3224	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C3225	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C3226	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C3227	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C3228	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C3229	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C3230	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C3231	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C3232	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C3233	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C3234	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C3235	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C3236	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C3237	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C3701	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	A
C3701	NCB10JK-106X	C CAPACITOR	10uF 6.3V K	B,C,D
C3702	NDCA1HJ-560W	C CAPACITOR	56pF 50V J	
C3703	NDCA1HJ-270W	C CAPACITOR	27pF 50V J	
C3704	NDCA1HJ-680W	C CAPACITOR	68pF 50V J	
C3705	NDCA1HJ-270W	C CAPACITOR	27pF 50V J	
C3706	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C3707	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C3708	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C3709	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C3712	NEAF0GM-337X	E CAPACITOR	330uF 4V M	
C3713	NEAF0GM-337X	E CAPACITOR	330uF 4V M	
C3715	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C3731	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	B,C,D
C3732	NCBA1HK-102W	C CAPACITOR	1000pF 50V K	B,C,D
C3733	NDCA1HJ-3R0W	C CAPACITOR	3pF 50V J	B,C,D
C3734	NDCA1HJ-5R0W	C CAPACITOR	5pF 50V J	B,C,D
C3735	NDCA1HJ-330W	C CAPACITOR	33pF 50V J	B,C,D
C3736	NCBA1HK-102W	C CAPACITOR	1000pF 50V K	B,C,D
C3738	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	B,C,D
C3739	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	B,C,D
C3740	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	B,C,D
C3741	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	B,C,D
C3742	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	B,C,D
C3743	NDCA1HJ-9R0W	C CAPACITOR	9pF 50V J	B,C,D
C3744	NDCA1HJ-150W	C CAPACITOR	15pF 50V J	B,C,D
C3745	NDCA1HJ-101W	C CAPACITOR	100pF 50V J	B,C,D
C3746	NCB20JM-475X	C CAPACITOR	4.7uF 6.3V M	B,C,D
C3747	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	B,C,D

MODEL	MARK	MODEL	MARK
GR-D32US	A	GR-D72US	C
GR-D71US	B	GR-D74US	D

⚠ Symbol No.	Part No.	Part Name	Description	Local
C4201	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
C4202	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C4203	NCB21AK-105X	C CAPACITOR	1uF 10V K	
C4204	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C4206	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C4207	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C4208	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C4209	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C4210	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C4211	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C4212	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C4213	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C4214	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C4216	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C4301	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C4302	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C4303	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C4304	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C4305	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C4306	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C4307	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C4308	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C4309	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C4310	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C4311	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C4312	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C4313	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
C4314	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C4316	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C4803	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
C4804	NCFA1AZ-104W	C CAPACITOR	0.1uF 10V Z	
C4806	NCFA1AZ-104W	C CAPACITOR	0.1uF 10V Z	
C4808	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C4809	NCFA1AZ-104W	C CAPACITOR	0.1uF 10V Z	
C4810	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C4811	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C4813	NCFA1AZ-104W	C CAPACITOR	0.1uF 10V Z	
C4814	NCFA1AZ-104W	C CAPACITOR	0.1uF 10V Z	
C4815	NCB31HK-152X	C CAPACITOR	1500pF 50V K	
C4819	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C4851	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
C4852	NCFA1AZ-104W	C CAPACITOR	0.1uF 10V Z	
C4853	NBE21AM-335X	TA E CAPACITOR	3.3uF 10V M	
C4854	NBE21AM-106X	TA E CAPACITOR	10uF 10V M	
C4855	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C4858	NDCA1HJ-330W	C CAPACITOR	33pF 50V J	
C4859	NCBA1CK-223W	C CAPACITOR	0.022uF 16V K	
C4860	NCBA1CK-223W	C CAPACITOR	0.022uF 16V K	
C4861	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C4862	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C4864	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
C4865	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C5501	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C5503	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C5504	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C5506	NBE40GM-476X	TA E CAPACITOR	47uF 4V M	
C5507	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C5508	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C5509	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C5510	NBP21VM-105X	TA E CAPACITOR	1uF 35V M	
C5511	NBP41EM-475X-B	TA E CAPACITOR	4.7uF 25V M	
C5512	NBE21AM-106X	TA E CAPACITOR	10uF 10V M	
C5513	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C5514	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C5515	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C5516	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C5517	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C5518	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C5519	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C6001	NCBA1HK-332W	C CAPACITOR	3300pF 50V K	
C6002	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C6003	NEAF1CM-106X	E CAPACITOR	10uF 16V M	A
C6003	NBP41VM-225X	TA E CAPACITOR	2.2uF 35V M	B,C,D
C6004	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C6021	NCB21CK-104X	C CAPACITOR	0.1uF 16V K	
C6022	NCB21CK-104X	C CAPACITOR	0.1uF 16V K	
C6023	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C6024	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C6025	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C6026	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C6027	NCBA1EK-472W	C CAPACITOR	4700pF 25V K	
C6029	NCBA1HK-102W	C CAPACITOR	1000pF 50V K	
C6030	NCBA1HK-102W	C CAPACITOR	1000pF 50V K	
C6031	NCBA1EK-472W	C CAPACITOR	4700pF 25V K	
C6032	NCBA1HK-102W	C CAPACITOR	1000pF 50V K	
C6033	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C6034	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C6035	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C6036	NDCA1HJ-101W	C CAPACITOR	100pF 50V J	
C6037	NCB21CK-473X	C CAPACITOR	0.047uF 16V K	
C6038	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C6039	NCB21CK-224X	C CAPACITOR	0.22uF 16V K	
C6040	NCB31CK-473X	C CAPACITOR	0.047uF 16V K	
C6041	NCB31CK-473X	C CAPACITOR	0.047uF 16V K	
C6042	NCB31CK-473X	C CAPACITOR	0.047uF 16V K	
C6043	NCB31CK-683X	C CAPACITOR	0.068uF 16V K	
C6044	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C6045	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C6101	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C6103	NCB10JK-106X	C CAPACITOR	10uF 6.3V K	
C6104	NCBA1HK-102W	C CAPACITOR	1000pF 50V K	
C6105	NCBA1HK-561W	C CAPACITOR	560pF 50V K	
C6106	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C6201	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C6203	NCB10JK-106X	C CAPACITOR	10uF 6.3V K	
C6204	NCBA1HK-102W	C CAPACITOR	1000pF 50V K	
C6301	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C6303	NCB10JK-106X	C CAPACITOR	10uF 6.3V K	
C6304	NCBA1HK-102W	C CAPACITOR	1000pF 50V K	
C6401	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C6403	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C6405	NCB31CK-683X	C CAPACITOR	0.068uF 16V K	
C6501	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C6503	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C6505	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C6601	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C6602	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C6603	NCB11EK-105X	C CAPACITOR	1uF 25V K	
C6605	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C6606	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C6607	NCB11EK-105X	C CAPACITOR	1uF 25V K	
C6608	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C6609	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C6610	NDCA1HJ-101W	C CAPACITOR	100pF 50V J	
C6701	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C6703	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C6801	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C6802	NBE40JM-476X	TA E CAPACITOR	47uF 6.3V M	
C6804	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C6807	NCB10JK-106X	C CAPACITOR	10uF 6.3V K	
C6809	NDCA1HJ-151W	C CAPACITOR	150pF 50V J	
C8001	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	B,C,D
C8002	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	B,C,D
C8003	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	B,C,D
C8004	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	B,C,D
C8005	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	B,C,D
C8006	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	B,C,D
C8007	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	B,C,D
C8008	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	B,C,D
C8010	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	B,C,D
C8011	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	B,C,D
C8014	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	B,C,D
C8015	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	B,C,D
C8016	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	B,C,D
C8017	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	B,C,D
C8018	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	B,C,D
C8019	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	B,C,D
C8020	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	B,C,D
C8021	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	B,C,D
C8022	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	B,C,D
C8023	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	B,C,D
C8025	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	B,C,D
C8026	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	B,C,D
C8030	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	B,C,D
C8031	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	B,C,D
C8301	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	B,C,D

MODEL	MARK	MODEL	MARK
GR-D32US	A	GR-D72US	C
GR-D71US	B	GR-D74US	D

⚠ Symbol No.	Part No.	Part Name	Description	Local
C8305	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	B,C,D
C8306	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	B,C,D
C8307	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	B,C,D
C8310	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	B,C,D
C8311	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	B,C,D
R1001	NRSA6AJ-105W	MG RESISTOR	1MΩ 1/16W J	
R1002	NRSA6AJ-104W	MG RESISTOR	100kΩ 1/16W J	
R1003	NRSA6AJ-104W	MG RESISTOR	100kΩ 1/16W J	
R1006	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
R1007	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	A
R1008	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	
R1009	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	
R1011	NRSA6AJ-104W	MG RESISTOR	100kΩ 1/16W J	
R1012	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
R1013	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
R1014	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
R1015	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
R1016	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	
R1017	NRSA6AJ-474W	MG RESISTOR	470kΩ 1/16W J	
R1018	NRSA6AJ-474W	MG RESISTOR	470kΩ 1/16W J	
R1019	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R1020	NRSA6AJ-104W	MG RESISTOR	100kΩ 1/16W J	
R1021	NRSA6AJ-104W	MG RESISTOR	100kΩ 1/16W J	
R1022	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
R1023	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
R1024	NRSA6AJ-104W	MG RESISTOR	100kΩ 1/16W J	
R1025	NRSA6AJ-104W	MG RESISTOR	100kΩ 1/16W J	
R1026	NRSA6AJ-473W	MG RESISTOR	47kΩ 1/16W J	
R1028	NRSA6AJ-473W	MG RESISTOR	47kΩ 1/16W J	A
R1030	NRSA6AJ-753W	MG RESISTOR	75kΩ 1/16W J	
R1031	NRSA6AJ-334W	MG RESISTOR	330kΩ 1/16W J	
R1032	NRSA6AJ-332W	MG RESISTOR	3.3kΩ 1/16W J	
R1033	NRSA6AJ-332W	MG RESISTOR	3.3kΩ 1/16W J	
R1034	NRSA6AJ-332W	MG RESISTOR	3.3kΩ 1/16W J	
R1035	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
R1037	NRSA6AJ-561W	MG RESISTOR	560Ω 1/16W J	A
R1037	NRSA6AJ-121W	MG RESISTOR	120Ω 1/16W J	B,C,D
R1038	NRSA6AJ-104W	MG RESISTOR	100kΩ 1/16W J	
R1039	NRSA6AJ-152W	MG RESISTOR	1.5kΩ 1/16W J	
R1040	NRSA6AJ-104W	MG RESISTOR	100kΩ 1/16W J	
R1043	NRSA6AJ-104W	MG RESISTOR	100kΩ 1/16W J	
R1044	NRSA6AJ-104W	MG RESISTOR	100kΩ 1/16W J	
R1045	NRSA6AJ-105W	MG RESISTOR	1MΩ 1/16W J	
R1046	NRSA6AJ-104W	MG RESISTOR	100kΩ 1/16W J	
R1047	NRSA6AJ-104W	MG RESISTOR	100kΩ 1/16W J	
R1048	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	
R1049	NRSA6AJ-623W	MG RESISTOR	62kΩ 1/16W J	
R1050	NRSA6AJ-823W	MG RESISTOR	82kΩ 1/16W J	
R1051	NRSA6AJ-473W	MG RESISTOR	47kΩ 1/16W J	
R1052	NRSA6AJ-104W	MG RESISTOR	100kΩ 1/16W J	
R1053	NRSA6AJ-222W	MG RESISTOR	2.2kΩ 1/16W J	
R1054	NRSA6AJ-104W	MG RESISTOR	100kΩ 1/16W J	
R1055	NRSA6AJ-334W	MG RESISTOR	330kΩ 1/16W J	
R1056	NRSA6AJ-334W	MG RESISTOR	330kΩ 1/16W J	
R1057	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
R1058	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
R1059	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
R1060	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	
R1062	NRSA6AJ-224W	MG RESISTOR	220kΩ 1/16W J	
R1063	NRSA6AJ-472W	MG RESISTOR	4.7kΩ 1/16W J	
R1064	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	
R1065	NRSA6AJ-153W	MG RESISTOR	15kΩ 1/16W J	
R1066	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	
R1067	NRSA6AJ-334W	MG RESISTOR	330kΩ 1/16W J	
R1068	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
R1069	NRSA6AJ-104W	MG RESISTOR	100kΩ 1/16W J	
R1070	NRSA6AJ-154W	MG RESISTOR	150kΩ 1/16W J	
R1071	NRSA6AJ-272W	MG RESISTOR	2.7kΩ 1/16W J	
R1072	NRSA6AJ-183W	MG RESISTOR	18kΩ 1/16W J	
R1073	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	
R1074	NRSA6AJ-472W	MG RESISTOR	4.7kΩ 1/16W J	
R1075	NRSA6AJ-473W	MG RESISTOR	47kΩ 1/16W J	
R1076	NRSA6AJ-473W	MG RESISTOR	47kΩ 1/16W J	
R1077	NRSA6AJ-104W	MG RESISTOR	100kΩ 1/16W J	
R1078	NRSA6AJ-393W	MG RESISTOR	39kΩ 1/16W J	
R1079	NRSA6AJ-223W	MG RESISTOR	22kΩ 1/16W J	
R1080	NRSA6AJ-822W	MG RESISTOR	8.2kΩ 1/16W J	
R1081	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	
R1082	NRSA6AJ-123W	MG RESISTOR	12kΩ 1/16W J	
R1083	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
R1084	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
R1085	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
R1086	NRSA6AJ-332W	MG RESISTOR	3.3kΩ 1/16W J	
R1087	NRSA6AJ-332W	MG RESISTOR	3.3kΩ 1/16W J	
R1088	NRSA6AJ-332W	MG RESISTOR	3.3kΩ 1/16W J	
R1089	NRSA6AJ-332W	MG RESISTOR	3.3kΩ 1/16W J	
R1091	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	
R1092	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	
R1093	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	
R1094	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	
R1095	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
R1096	NRSA6AJ-104W	MG RESISTOR	100kΩ 1/16W J	
R1097	NRSA6AJ-104W	MG RESISTOR	100kΩ 1/16W J	
R1099	NRSA6AJ-104W	MG RESISTOR	100kΩ 1/16W J	
R1101	NRSA6AJ-105W	MG RESISTOR	1MΩ 1/16W J	
R1102	NRSA6AJ-472W	MG RESISTOR	4.7kΩ 1/16W J	
R1103	NRSA6AJ-333W	MG RESISTOR	33kΩ 1/16W J	
R1104	NRSA6AJ-105W	MG RESISTOR	1MΩ 1/16W J	
R1105	NRSA6AJ-472W	MG RESISTOR	4.7kΩ 1/16W J	
R1106	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	
R1107	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	
R1108	NRSA6AJ-302W	MG RESISTOR	3kΩ 1/16W J	
R1151	NRSA6AJ-470W	MG RESISTOR	47Ω 1/16W J	
R2013	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R2014	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R2015	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R2016	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R2017	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R2018	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R2101	NRSA6AJ-471W	MG RESISTOR	470Ω 1/16W J	B,C,D
R2102	NRSA6AJ-471W	MG RESISTOR	470Ω 1/16W J	B,C,D
R2105	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	B,C,D
R2111	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	B,C,D
R2112	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	B,C,D
R2113	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	B,C,D
R2114	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	B,C,D
R2201	NRSA6AJ-684W	MG RESISTOR	680kΩ 1/16W J	
R2202	NRSA6AJ-564W	MG RESISTOR	560kΩ 1/16W J	
R2203	NRSA6AJ-393W	MG RESISTOR	39kΩ 1/16W J	
R2204	NRSA6AJ-154W	MG RESISTOR	150kΩ 1/16W J	
R2206	NRSA6AJ-333W	MG RESISTOR	33kΩ 1/16W J	
R2207	NRSA6AJ-333W	MG RESISTOR	33kΩ 1/16W J	
R2208	NRSA6AJ-223W	MG RESISTOR	22kΩ 1/16W J	
R2209	NRSA6AJ-223W	MG RESISTOR	22kΩ 1/16W J	
R2210	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R2211	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R2212	NRSA6AJ-2R7W	MG RESISTOR	2.7Ω 1/16W J	
R2213	NRSA6AJ-2R7W	MG RESISTOR	2.7Ω 1/16W J	
R2217	NRSA6AJ-100W	MG RESISTOR	10Ω 1/16W J	
R2218	NRSA6AJ-100W	MG RESISTOR	10Ω 1/16W J	
R2219	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R2220	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R2221	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R2222	NRSA6AJ-100W	MG RESISTOR	10Ω 1/16W J	
R2223	NRSA6AJ-100W	MG RESISTOR	10Ω 1/16W J	
R2224	NRSA6AJ-100W	MG RESISTOR	10Ω 1/16W J	
R2225	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R2226	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R2229	NRSA6AJ-564W	MG RESISTOR	560kΩ 1/16W J	
R2230	NRSA6AJ-564W	MG RESISTOR	560kΩ 1/16W J	
R2231	NRSA6AJ-332W	MG RESISTOR	3.3kΩ 1/16W J	
R2401	NRSA6AJ-472W	MG RESISTOR	4.7kΩ 1/16W J	
R2402	NRSA6AJ-472W	MG RESISTOR	4.7kΩ 1/16W J	
R2403	NRSA6AJ-183W	MG RESISTOR	18kΩ 1/16W J	
R2406	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R2407	NRSA6AJ-100W	MG RESISTOR	10Ω 1/16W J	
R2601	NRSA6AJ-182W	MG RESISTOR	1.8kΩ 1/16W J	
R2602	NRSA6AJ-182W	MG RESISTOR	1.8kΩ 1/16W J	
R2607	NRSA6AJ-223W	MG RESISTOR	22kΩ 1/16W J	
R2608	NRSA6AJ-223W	MG RESISTOR	22kΩ 1/16W J	
R2609	NRSA6AJ-224W	MG RESISTOR	220kΩ 1/16W J	
R2610	NRSA6AJ-224W	MG RESISTOR	220kΩ 1/16W J	
R3002	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	
R3004	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	
R3005	NRSA6AJ-100W	MG RESISTOR	10Ω 1/16W J	

MODEL	MARK	MODEL	MARK
GR-D32US	A	GR-D72US	C
GR-D71US	B	GR-D74US	D

⚠ Symbol No.	Part No.	Part Name	Description	Local
R3006	NRSA6AJ-100W	MG RESISTOR	10Ω 1/16W J	
R3007	NRSA6AJ-562W	MG RESISTOR	5.6kΩ 1/16W J	
R3008	NRSA6AJ-222W	MG RESISTOR	2.2kΩ 1/16W J	
R3009	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	
R3010	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	
R3011	NRSA6AJ-224W	MG RESISTOR	220kΩ 1/16W J	
R3013	NRSA6AJ-242W	MG RESISTOR	2.4kΩ 1/16W J	
R3014	NRSA6AJ-392W	MG RESISTOR	3.9kΩ 1/16W J	
R3015	NRSA6AJ-392W	MG RESISTOR	3.9kΩ 1/16W J	
R3016	NRVA6AD-560W	CMF RESISTOR	56Ω 1/16W D	
R3017	NRVA6AD-560W	CMF RESISTOR	56Ω 1/16W D	
R3018	NRVA6AD-560W	CMF RESISTOR	56Ω 1/16W D	
R3019	NRVA6AD-560W	CMF RESISTOR	56Ω 1/16W D	
R3020	NRVA6AD-512W	CMF RESISTOR	5.1kΩ 1/16W D	
R3021	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R3025	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
R3027	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	
R3029	NRSA6AJ-822W	MG RESISTOR	8.2kΩ 1/16W J	
R3030	NRSA6AJ-224W	MG RESISTOR	220kΩ 1/16W J	
R3031	NRSA6AJ-224W	MG RESISTOR	220kΩ 1/16W J	
R3032	NRSA6AJ-105W	MG RESISTOR	1MΩ 1/16W J	
R3034	NRSA6AJ-222W	MG RESISTOR	2.2kΩ 1/16W J	
R3036	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	
R3037	NRSA6AJ-681W	MG RESISTOR	680Ω 1/16W J	
R3057	NRSA6AJ-151W	MG RESISTOR	150Ω 1/16W J	
R3066	NRSA6AJ-561W	MG RESISTOR	560Ω 1/16W J	
R3067	NRSA6AJ-561W	MG RESISTOR	560Ω 1/16W J	
R3068	NRSA6AJ-181W	MG RESISTOR	180Ω 1/16W J	
R3069	NRSA6AJ-472W	MG RESISTOR	4.7kΩ 1/16W J	
R3071	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R3074	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	
R3077	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R3201	NRSA6AJ-101W	MG RESISTOR	100Ω 1/16W J	
R3202	NRSA6AD-183W	MG RESISTOR	18kΩ 1/16W D	
R3203	NRSA6AD-123W	MG RESISTOR	12kΩ 1/16W D	
R3204	NRSA6AD-821W	MG RESISTOR	820Ω 1/16W D	
R3205	NRSA6AD-821W	MG RESISTOR	820Ω 1/16W D	
R3207	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R3339	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3701	NRSA6AD-271W	MG RESISTOR	270Ω 1/16W D	
R3702	NRSA6AD-271W	MG RESISTOR	270Ω 1/16W D	
R3703	NRSA6AJ-332W	MG RESISTOR	3.3kΩ 1/16W J	
R3704	NRSA6AD-301W	MG RESISTOR	300Ω 1/16W D	
R3705	NRSA6AD-301W	MG RESISTOR	300Ω 1/16W D	
R3706	NRSA6AJ-332W	MG RESISTOR	3.3kΩ 1/16W J	
R3707	NRSA6AD-680W	MG RESISTOR	68Ω 1/16W D	
R3708	NRSA6AD-680W	MG RESISTOR	68Ω 1/16W D	
R3709	NRSA6AD-680W	MG RESISTOR	68Ω 1/16W D	
R3710	NRSA6AJ-104W	MG RESISTOR	100kΩ 1/16W J	
R3711	NRSA6AJ-104W	MG RESISTOR	100kΩ 1/16W J	
R3712	NRSA6AJ-105W	MG RESISTOR	1MΩ 1/16W J	
R3713	NRSA6AJ-104W	MG RESISTOR	100kΩ 1/16W J	
R3714	NRSA6AJ-823W	MG RESISTOR	82kΩ 1/16W J	
R3715	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	
R3722	NRSA6AD-131W	MG RESISTOR	130Ω 1/16W D	
R3724	NRSA6AJ-472W	MG RESISTOR	4.7kΩ 1/16W J	
R3725	NRSA6AD-131W	MG RESISTOR	130Ω 1/16W D	
R3726	NRSA6AJ-472W	MG RESISTOR	4.7kΩ 1/16W J	
R3727	NRSA6AJ-472W	MG RESISTOR	4.7kΩ 1/16W J	
R3728	NRSA6AD-131W	MG RESISTOR	130Ω 1/16W D	
R3730	NRSA6AJ-472W	MG RESISTOR	4.7kΩ 1/16W J	
R3731	NRSA6AJ-472W	MG RESISTOR	4.7kΩ 1/16W J	B,C,D
R3732	NRSA6AJ-101W	MG RESISTOR	100Ω 1/16W J	B,C,D
R3733	NRSA6AD-561W	MG RESISTOR	560Ω 1/16W D	B,C,D
R3734	NRSA6AJ-822W	MG RESISTOR	8.2kΩ 1/16W J	B,C,D
R3735	NRSA6AD-182W	MG RESISTOR	1.8kΩ 1/16W D	B,C,D
R3736	NRSA6AJ-183W	MG RESISTOR	18kΩ 1/16W J	B,C,D
R3737	NRSA6AJ-183W	MG RESISTOR	18kΩ 1/16W J	B,C,D
R3738	NRSA6AJ-681W	MG RESISTOR	680Ω 1/16W J	B,C,D
R3739	NRSA6AJ-821W	MG RESISTOR	820Ω 1/16W J	B,C,D
R3740	NRSA6AJ-821W	MG RESISTOR	820Ω 1/16W J	B,C,D
R3741	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	B,C,D
R3742	NRSA6AJ-104W	MG RESISTOR	100kΩ 1/16W J	B,C,D
R3743	NRSA6AJ-104W	MG RESISTOR	100kΩ 1/16W J	B,C,D
R3744	NRSA6AD-181W	MG RESISTOR	180Ω 1/16W D	B,C,D
R3745	NRSA6AD-471W	MG RESISTOR	470Ω 1/16W D	B,C,D
R3746	NRSA6AJ-222W	MG RESISTOR	2.2kΩ 1/16W J	B,C,D
R3747	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	B,C,D
R3748	NRSA6AJ-474W	MG RESISTOR	470kΩ 1/16W J	B,C,D
R4201	NRSA6AJ-333W	MG RESISTOR	33kΩ 1/16W J	
R4202	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R4203	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R4204	NRSA6AJ-220W	MG RESISTOR	22Ω 1/16W J	
R4301	NRSA6AJ-220W	MG RESISTOR	22Ω 1/16W J	
R4302	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R4304	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R4306	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R4307	NRSA6AJ-470W	MG RESISTOR	47Ω 1/16W J	B,C,D
R4308	NRSA6AJ-470W	MG RESISTOR	47Ω 1/16W J	
R4309	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R4310	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R4315	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R4317	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R4319	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R4326	NRSA6AJ-470W	MG RESISTOR	47Ω 1/16W J	
R4327	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R4328	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R4329	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R4330	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R4331	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R4332	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R4333	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R4334	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R4335	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	B,C,D
R4336	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	B,C,D
R4337	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	B,C,D
R4338	NRSA6AJ-220W	MG RESISTOR	22Ω 1/16W J	B,C,D
R4339	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R4341	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R4342	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R4343	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R4344	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R4345	NRSA6AJ-220W	MG RESISTOR	22Ω 1/16W J	
R4346	NRSA6AJ-220W	MG RESISTOR	22Ω 1/16W J	
R4354	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R4804	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
R4805	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	
R4806	NRSA6AJ-683W	MG RESISTOR	68kΩ 1/16W J	
R4807	NRSA6AJ-823W	MG RESISTOR	82kΩ 1/16W J	
R4808	NRSA6AJ-243W	MG RESISTOR	24kΩ 1/16W J	
R4809	NRSA6AJ-681W	MG RESISTOR	680Ω 1/16W J	
R4810	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	
R4811	NRSA6AJ-824W	MG RESISTOR	820kΩ 1/16W J	
R4812	NRSA6AJ-153W	MG RESISTOR	15kΩ 1/16W J	
R4814	NRSA6AJ-105W	MG RESISTOR	1MΩ 1/16W J	
R4815	NRSA6AJ-472W	MG RESISTOR	4.7kΩ 1/16W J	
R4816	NRSA6AJ-105W	MG RESISTOR	1MΩ 1/16W J	
R4817	NRSA6AJ-334W	MG RESISTOR	330kΩ 1/16W J	
R4818	NRSA6AJ-154W	MG RESISTOR	150kΩ 1/16W J	
R4819	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	
R4820	NRSA6AJ-104W	MG RESISTOR	100kΩ 1/16W J	
R4821	NRSA6AJ-104W	MG RESISTOR	100kΩ 1/16W J	
R4822	NRSA6AJ-333W	MG RESISTOR	33kΩ 1/16W J	
R4823	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
R4824	NRSA6AJ-472W	MG RESISTOR	4.7kΩ 1/16W J	
R4825	NRSA6AJ-222W	MG RESISTOR	2.2kΩ 1/16W J	B,C,D
R4826	NRSA6AJ-473W	MG RESISTOR	47kΩ 1/16W J	B,C,D
R4827	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R4828	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R4833	NRSA6AJ-104W	MG RESISTOR	100kΩ 1/16W J	
R4836	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
R4837	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	B,C,D
R4839	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	B,C,D
R4840	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	B,C,D
R4841	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	A
R4842	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	A
R4843	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R4844	NRSA6AJ-151W	MG RESISTOR	150Ω 1/16W J	
R4846	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	B,C,D
R4849	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	B,C,D
R4854	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R4856	NRSA6AJ-6R8W	MG RESISTOR	6.8Ω 1/16W J	
R4857	NRSA6AJ-6R8W	MG RESISTOR	6.8Ω 1/16W J	
R4858	NRSA6AJ-333W	MG RESISTOR	33kΩ 1/16W J	
R4859	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R4860	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	

MODEL	MARK	MODEL	MARK
GR-D32US	A	GR-D72US	C
GR-D71US	B	GR-D74US	D

⚠	Symbol No.	Part No.	Part Name	Description	Local
	R4862	NRSA6AJ-6R8W	MG RESISTOR	6.8Ω 1/16W J	
	R4863	NRSA6AJ-6R8W	MG RESISTOR	6.8Ω 1/16W J	
	R4864	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
	R4865	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
	R4866	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
	R4867	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
	R4868	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
	R4870	NRSA6AJ-271W	MG RESISTOR	270Ω 1/16W J	
	R4871	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
	R4874	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
	R5501	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
	R5503	NRSA6AJ-220W	MG RESISTOR	22Ω 1/16W J	
	R5504	NRSA6AJ-220W	MG RESISTOR	22Ω 1/16W J	
	R5505	NRSA6AJ-220W	MG RESISTOR	22Ω 1/16W J	
	R5506	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
	R5507	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
	R5509	NRSA6AJ-470W	MG RESISTOR	47Ω 1/16W J	
	R5511	NRSA6AJ-470W	MG RESISTOR	47Ω 1/16W J	
	R5512	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
	R5513	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
	R5514	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
	R6021	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
	R6022	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
	R6023	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
	R6024	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
	R6025	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
	R6026	NRSA6AJ-393W	MG RESISTOR	39kΩ 1/16W J	
	R6027	NRSA6AD-103W	MG RESISTOR	10kΩ 1/16W D	
	R6028	NRSA6AD-751W	MG RESISTOR	750Ω 1/16W D	
	R6029	NRSA6AD-103W	MG RESISTOR	10kΩ 1/16W D	
	R6030	NRSA6AJ-333W	MG RESISTOR	33kΩ 1/16W J	
	R6031	NRSA6AJ-472W	MG RESISTOR	4.7kΩ 1/16W J	
	R6033	NRSA6AJ-562W	MG RESISTOR	5.6kΩ 1/16W J	
	R6034	NRSA6AJ-153W	MG RESISTOR	15kΩ 1/16W J	
	R6035	NRSA6AJ-104W	MG RESISTOR	100kΩ 1/16W J	
	R6036	NRSA6AJ-104W	MG RESISTOR	100kΩ 1/16W J	
	R6037	NRSA6AD-153W	MG RESISTOR	15kΩ 1/16W D	
	R6038	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
	R6042	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
	R6044	NRSA6AJ-224W	MG RESISTOR	220kΩ 1/16W J	
	R6045	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
	R6046	NRSA6AJ-123W	MG RESISTOR	12kΩ 1/16W J	
	R6047	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
	R6048	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	A
	R6049	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
	R6102	NRVA6AD-223W	CMF RESISTOR	22kΩ 1/16W D	
	R6103	NRVA6AD-103W	CMF RESISTOR	10kΩ 1/16W D	
	R6104	NRSA6AJ-474W	MG RESISTOR	470kΩ 1/16W J	
	R6105	NRSA6AJ-473W	MG RESISTOR	47kΩ 1/16W J	
	R6106	NRSA6AJ-101W	MG RESISTOR	100Ω 1/16W J	
	R6107	NRSA6AD-183W	MG RESISTOR	18kΩ 1/16W D	
	R6108	NRSA6AD-123W	MG RESISTOR	12kΩ 1/16W D	
	R6109	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
	R6110	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
	R6202	NRSA6AD-123W	MG RESISTOR	12kΩ 1/16W D	
	R6203	NRSA6AD-153W	MG RESISTOR	15kΩ 1/16W D	
	R6204	NRSA6AJ-122W	MG RESISTOR	1.2kΩ 1/16W J	
	R6302	NRSA6AD-183W	MG RESISTOR	18kΩ 1/16W D	
	R6303	NRSA6AD-472W	MG RESISTOR	4.7kΩ 1/16W D	
	R6305	NRSA6AJ-104W	MG RESISTOR	100kΩ 1/16W J	
	R6306	NRSA6AJ-123W	MG RESISTOR	12kΩ 1/16W J	
	R6308	NRSA6AJ-473W	MG RESISTOR	47kΩ 1/16W J	
	R6309	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
	R6310	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
	R6402	NRSA6AD-243W	MG RESISTOR	24kΩ 1/16W D	
	R6403	NRSA6AD-302W	MG RESISTOR	3kΩ 1/16W D	
	R6405	NRSA6AJ-123W	MG RESISTOR	12kΩ 1/16W J	
	R6406	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	
	R6407	NRSA6AJ-104W	MG RESISTOR	100kΩ 1/16W J	
	R6502	NRSA6AD-473W	MG RESISTOR	47kΩ 1/16W D	
	R6503	NRSA6AD-562W	MG RESISTOR	5.6kΩ 1/16W D	
	R6505	NRSA6AJ-473W	MG RESISTOR	47kΩ 1/16W J	
	R6506	NRSA6AJ-273W	MG RESISTOR	27kΩ 1/16W J	
	R6602	NRSA6AD-114W	MG RESISTOR	110kΩ 1/16W D	
	R6603	NRSA6AD-392W	MG RESISTOR	3.9kΩ 1/16W D	
	R6604	NRSA6AD-114W	MG RESISTOR	110kΩ 1/16W D	
	R6605	NRSA6AJ-222W	MG RESISTOR	2.2kΩ 1/16W J	
	R6608	NRSA6AJ-104W	MG RESISTOR	100kΩ 1/16W J	
	R6610	NRSA6AD-472W	MG RESISTOR	4.7kΩ 1/16W D	
	R6611	NRSA6AD-823W	MG RESISTOR	82kΩ 1/16W D	
	R6612	NRSA6AJ-104W	MG RESISTOR	100kΩ 1/16W J	
	R6613	NRSA6AJ-823W	MG RESISTOR	82kΩ 1/16W J	
	R6614	NRSA6AD-104W	MG RESISTOR	100kΩ 1/16W D	
	R6615	NRSA6AD-104W	MG RESISTOR	100kΩ 1/16W D	
	R6616	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	
	R6617	NRSA6AJ-333W	MG RESISTOR	33kΩ 1/16W J	
	R6618	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
	R6619	NRSA6AD-823W	MG RESISTOR	82kΩ 1/16W D	
	R6701	NRZ0058-R20X	MG RESISTOR	0.2Ω 1/2W J	
	R6702	NRSA6AD-114W	MG RESISTOR	110kΩ 1/16W D	
	R6703	NRSA6AD-153W	MG RESISTOR	15kΩ 1/16W D	
	R6704	NRSA6AJ-224W	MG RESISTOR	220kΩ 1/16W J	
	R6706	NRSA6AD-823W	MG RESISTOR	82kΩ 1/16W D	
	R6707	NRSA6AD-333W	MG RESISTOR	33kΩ 1/16W D	
	R6709	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
	R6803	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
	R6804	NRVA6AD-563W	CMF RESISTOR	56kΩ 1/16W D	
⚠	R6805	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
	R6813	NRVA6AD-273W	CMF RESISTOR	27kΩ 1/16W D	
	R6815	NRSA6AJ-681W	MG RESISTOR	680Ω 1/16W J	
	R8001	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	B,C,D
	R8002	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	B,C,D
	R8003	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	B,C,D
	R8004	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	B,C,D
	R8005	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	B,C,D
	R8006	NRSA6AJ-153W	MG RESISTOR	15kΩ 1/16W J	B,C,D
	R8007	NRSA6AJ-472W	MG RESISTOR	4.7kΩ 1/16W J	B,C,D
	R8009	NRSA6AJ-472W	MG RESISTOR	4.7kΩ 1/16W J	B,C,D
	R8016	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	B,C,D
	R8017	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	B,C,D
	R8022	NRSA6AJ-105W	MG RESISTOR	1MΩ 1/16W J	B,C,D
	R8030	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	B,C,D
	R8031	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	B,C,D
	R8037	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	B,C,D
	R8038	NRSA6AJ-220W	MG RESISTOR	22Ω 1/16W J	B,C,D
	R8041	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	B,C,D
	R8042	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	B,C,D
	R8043	NRSA6AJ-220W	MG RESISTOR	22Ω 1/16W J	B,C,D
	R8046	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	B,C,D
	R8051	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	B,C,D
	R8054	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	B,C,D
	R8056	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	B,C,D
	R8059	NRSA6AJ-473W	MG RESISTOR	47kΩ 1/16W J	B,C,D
	R8063	NRSA6AJ-220W	MG RESISTOR	22Ω 1/16W J	B,C,D
	R8065	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	B,C,D
	R8066	NRSA6AJ-473W	MG RESISTOR	47kΩ 1/16W J	B,C,D
	R8068	NRSA6AJ-561W	MG RESISTOR	560Ω 1/16W J	B,C,D
	R8069	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	B,C,D
	R8070	NRSA6AJ-220W	MG RESISTOR	22Ω 1/16W J	B,C,D
	R8074	NRSA6AJ-473W	MG RESISTOR	47kΩ 1/16W J	B,C,D
	R8075	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	B,C,D
	R8076	NRSA6AJ-220W	MG RESISTOR	22Ω 1/16W J	B,C,D
	R8077	NRSA6AJ-220W	MG RESISTOR	22Ω 1/16W J	B,C,D
	R8078	NRSA6AJ-220W	MG RESISTOR	22Ω 1/16W J	B,C,D
	R8079	NRSA6AJ-221W	MG RESISTOR	220Ω 1/16W J	B,C,D
	R8302	NRS181J-220X	MG RESISTOR	22Ω 1/8W J	B,C,D
	R8303	NRS181J-220X	MG RESISTOR	22Ω 1/8W J	B,C,D
	R8305	NRSA6AJ-105W	MG RESISTOR	1MΩ 1/16W J	B,C,D
	R8306	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	B,C,D
	R8307	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	B,C,D
	R8308	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	B,C,D
	R8309	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	B,C,D
	R8313	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	B,C,D
	R8314	NRSA6AJ-105W	MG RESISTOR	1MΩ 1/16W J	B,C,D
	R8315	NRSA6AJ-105W	MG RESISTOR	1MΩ 1/16W J	B,C,D
	R8716	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	B,C,D
	R8717	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	B,C,D
	RA1001	NRZ0034-473W	NET RESISTOR	47kΩ 1/32W J	
	RA1002	NRZ0034-104W	NET RESISTOR	100kΩ 1/32W J	
	RA1004	NRZ0034-104W	NET RESISTOR	100kΩ 1/32W J	
	RA1005	NRZ0034-103W	NET RESISTOR	10kΩ 1/32W J	
	RA1006	NRZ0034-102W	NET RESISTOR	1kΩ 1/32W J	
	RA1007	NRZ0034-102W	NET RESISTOR	1kΩ 1/32W J	
	RA1008	NRZ0034-104W	NET RESISTOR	100kΩ 1/32W J	
	RA3001	NRZ0034-560W	NET RESISTOR	56Ω 1/32W J	
	RA3002	NRZ0034-560W	NET RESISTOR	56Ω 1/32W J	

MODEL	MARK	MODEL	MARK
GR-D32US	A	GR-D72US	C
GR-D71US	B	GR-D74US	D

⚠ Symbol No.	Part No.	Part Name	Description	Local
RA3003	NRZ0034-100W	NET RESISTOR	10Ω 1/32W J	
RA3004	NRZ0034-103W	NET RESISTOR	10kΩ 1/32W J	
RA3005	NRZ0040-0R0X	NET RESISTOR	0Ω 1/16W J	
RA8001	NRZ0034-101W	NET RESISTOR	100Ω 1/32W J	B,C,D
RA8002	NRZ0034-101W	NET RESISTOR	100Ω 1/32W J	B,C,D
RA8003	NRZ0034-101W	NET RESISTOR	100Ω 1/32W J	B,C,D
RA8004	NRZ0034-101W	NET RESISTOR	100Ω 1/32W J	B,C,D
L1001	NQL402M-100X	COIL	10uH M	
L1002	NQL402M-100X	COIL	10uH M	
L2101	NQL38DK-100X	P COIL	10uH K	B,C,D
L2401	NQL402M-100X	COIL	10uH M	
L2402	NQL402M-100X	COIL	10uH M	
L3001	NQR0129-002X	FERRITE BEADS		
L3002	NQR0129-002X	FERRITE BEADS		
L3004	NQR0006-001X	FERRITE BEADS		
L3005	NQR0006-001X	FERRITE BEADS		
L3007	NQL085J-2R2X	COIL	2.2uH J	
L3008	NQL085J-120X	COIL	12uH J	
L3012	NQR0129-002X	FERRITE BEADS		
L3014	NQL38DK-100X	P COIL	10uH K	
L3015	NQR0006-001X	FERRITE BEADS		
L3201	NQR0129-002X	FERRITE BEADS		
L3202	NQR0129-002X	FERRITE BEADS		
L3203	NQR0006-001X	FERRITE BEADS		
L3204	NQL38DK-100X	P COIL	10uH K	
L3701	NQL38DK-100X	P COIL	10uH K	
L3731	NQL085J-6R8X	COIL	6.8uH J	B,C,D
L3732	NQL085J-2R2X	COIL	2.2uH J	B,C,D
L4201	NQR0129-002X	FERRITE BEADS		
L4301	NQR0129-002X	FERRITE BEADS		
L4302	NQR0129-002X	FERRITE BEADS		
L4802	NQL302N-100X	COIL	10uH N	
L4851	NQR0129-002X	FERRITE BEADS		
L4852	NQL38DK-100X	P COIL	10uH K	
L4853	NQL38DK-100X	P COIL	10uH K	
L5501	NQL38DK-100X	P COIL	10uH K	
L5502	NQR0129-002X	FERRITE BEADS		
L5503	NQR0129-002X	FERRITE BEADS		
L5504	NQR0129-002X	FERRITE BEADS		
L5505	NQL38DK-100X	P COIL	10uH K	
L5506	NQL38DK-100X	P COIL	10uH K	
L6001	NQL52EN-4R7X	COIL	4.7uH N	B,C,D
L6101	NQL52EM-390X	COIL	39uH M	
L6201	NQL82EN-390X	COIL	39uH N	
L6301	NQL52EM-390X	COIL	39uH M	
L6302	NQL144K-220X	P COIL	22uH K	
L6401	NQL52EM-470X	COIL	47uH M	
L6501	NQL52EM-470X	COIL	47uH M	
L6601	NQLZ011-221X	COIL	220uH M	
L6701	NQL73EM-100X	COIL	10uH M	
L6801	NQL79GM-470X	COIL	47uH M	
L8001	NQR0129-002X	FERRITE BEADS		B,C,D
L8002	NQR0129-002X	FERRITE BEADS		B,C,D
L8003	NQR0129-002X	FERRITE BEADS		B,C,D
L8004	NQR0129-002X	FERRITE BEADS		B,C,D
L8005	NQR0129-002X	FERRITE BEADS		B,C,D
L8006	NQR0129-002X	FERRITE BEADS		B,C,D
L8301	NQR0129-002X	FERRITE BEADS		B,C,D
CN101	QGF0528F1-40X	CONNECTOR	MONITOR L FFC/FPC (1-40)	
CN102	QGF0508F1-06X	CONNECTOR	FRONT FFC/FPC (1-6)	
CN103	QGF0534F1-10X	CONNECTOR	SD CARD L FFC/FPC (1-10)	B,C,D
CN104	QGA1002C1-08X	CONNECTOR	REAR W W-B (1-8)	
CN105	QGB0801M1-30X	CONNECTOR	JIG CN B B-B (1-30)	
CN106	QGA1001F1-04X	CONNECTOR	MIC W W-B (1-4)	
CN107	QGF0512C1-20X	CONNECTOR	CCD S FFC/FPC (1-20)	
CN108	QGF0512C1-24X	CONNECTOR	OP S FFC/FPC (1-24)	
CN109	QGF0534F1-16X	CONNECTOR	OPE UNITL FFC/FPC (1-16)	
CN110	QGF0508F1-40X	CONNECTOR	PRE/MDA L FFC/FPC (1-40)	
CN111	QGF0508F1-40X	CONNECTOR	PRE/MDA L FFC/FPC (1-40)	
CN112	QGF0512C1-12X	CONNECTOR	REAR FFC/FPC (1-12)	
⚠ F6001	NMFZ007-2R5X-K	FUSE	2.5A 24V	
⚠ F6301	NMFZ007-1R25X-K	FUSE	1.25A 32V	
⚠ F6801	NMFZ007-R50X-K	FUSE	0.5A 50V	
J501	NNZ0041-001X	D CONNECTOR	DV IEEE1394(4pin)	
J502	QNZ0616-001	USB CONNECTOR	USB	B,C,D
X1001	NAX0630-001	CRYSTAL		

⚠ Symbol No.	Part No.	Part Name	Description	Local
X1002	NAX0564-001X	CRYSTAL		
X3002	NAX0480-001X	CRYSTAL	24.576MHz	
X5501	NAX0587-001X	CXO		
X8301	NAX0612-001X	C RESONATOR		B,C,D
OT1	LY30030-0Y7A	SPACER(A)	SPACER	
OT2	LY30030-0Y3A	SPACER(A)		
OT3	LY44551-001A	SHEET(MA2)	MAIN	A
OT3	LY44549-001A	SHIELD SHEET		B,C,D
OT4	LY44552-001A	BUSTERAID	MAIN	A
WR1	WJT0122-001A	E-CARD WIRE	MAN-PRE/MD(x2)	

MONI-C BOARD ASSEMBLY <02> [S TYPE]

NOTE :

There are two types of VF(COLOR) ASSEMBLY used for this model: S type and K type.

For methods to distinguish the two types, see Cover Page.

⚠ Symbol No.	Part No.	Part Name	Description	Local
PW1	YB10447B-02	MONI-C BOARD ASSY		A
PW1	YB10447A-02	MONI-C BOARD ASSY		B,C,D
IC7601	AN2540FHQ	IC		
IC7602	RC4558D-X	IC		
IC7604	SN74LV08APW-X	IC		
IC7606	MM1613AN-X	IC		
Q7601	2SC4617/QR/-X	TRANSISTOR		
Q7601 or	2SC4738/YG/-X	TRANSISTOR		
Q7601 or	2SD2216J/QR/-X	TRANSISTOR		
Q7601 or	BC847BT-X	TRANSISTOR		
Q7602	2SA1774/QR/-X	TRANSISTOR		
Q7602 or	2SA1832/YG/-X	TRANSISTOR		
Q7602 or	BC857BT-X	TRANSISTOR		
Q7602 or	2SB1462J/QR/-X	TRANSISTOR		
Q7603	2SC4617/QR/-X	TRANSISTOR		
Q7603 or	2SC4738/YG/-X	TRANSISTOR		
Q7603 or	2SD2216J/QR/-X	TRANSISTOR		
Q7603 or	BC847BT-X	TRANSISTOR		
Q7604	2SA1774/QR/-X	TRANSISTOR		
Q7604 or	2SA1832/YG/-X	TRANSISTOR		
Q7604 or	BC857BT-X	TRANSISTOR		
Q7604 or	2SB1462J/QR/-X	TRANSISTOR		
Q7608	DTC144EE-X	DIGI TRANSISTOR		
Q7608 or	UN9213J-X	DIGI TRANSISTOR		
Q7608 or	RN1104-X	DIGI TRANSISTOR		
Q7608 or	BCR148T-X	DIGI TRANSISTOR		
Q7609	DTC144EE-X	DIGI TRANSISTOR		
Q7609 or	UN9213J-X	DIGI TRANSISTOR		
Q7609 or	RN1104-X	DIGI TRANSISTOR		
Q7609 or	BCR148T-X	DIGI TRANSISTOR		
Q7610	DTA144EE-X	DIGI TRANSISTOR		
Q7610 or	UN9113J-X	DIGI TRANSISTOR		
Q7610 or	RN2104-X	DIGI TRANSISTOR		
Q7610 or	BCR198T-X	DIGI TRANSISTOR		
D7602	BAS16-03W-X	SI DIODE		
D7604	MA8068-X	Z DIODE		
C1	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C10	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	B,C,D
C11	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	B,C,D
C7601	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C7603	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	
C7604	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	
C7605	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	
C7606	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C7607	NCB41CK-106X	C CAPACITOR	10uF 16V K	
C7609	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C7610	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	
C7611	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	
C7612	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	
C7613	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	
C7614	NCB31HK-152X	C CAPACITOR	1500pF 50V K	
C7616	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	

MODEL	MARK	MODEL	MARK
GR-D32US	A	GR-D72US	C
GR-D71US	B	GR-D74US	D

⚠ Symbol No.	Part No.	Part Name	Description	Local
C7618	NBE90JM-106X	TA E CAPACITOR	10uF 6.3V M	
C7619	NBE90JM-106X	TA E CAPACITOR	10uF 6.3V M	
C7621	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C7622	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C7623	NBE21AM-106X	TA E CAPACITOR	10uF 10V M	
C7624	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C7626	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C7627	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C7628	NBP41EM-475X-B	TA E CAPACITOR	4.7uF 25V M	
C7629	NBP21CM-335X	TA E CAPACITOR	3.3uF 16V M	
C7630	NBP41EM-475X-B	TA E CAPACITOR	4.7uF 25V M	
C7632	NBP41EM-475X-B	TA E CAPACITOR	4.7uF 25V M	
C7634	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	
C7637	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C7638	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	
C7639	NBP41CM-106X	TA E CAPACITOR	10uF 16V M	
C7642	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C7653	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C7654	NCB21AK-105X	C CAPACITOR	1uF 10V K	
R3	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R5	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R6	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R7	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	B,C,D
R8	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	B,C,D
R9	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	B,C,D
R18	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	B,C,D
R19	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	B,C,D
R21	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	B,C,D
R22	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	B,C,D
R23	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	B,C,D
R25	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	B,C,D
R29	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	B,C,D
R30	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	B,C,D
R31	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	B,C,D
R32	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	B,C,D
R7601	NRVA63D-622X	CMF RESISTOR	6.2kΩ 1/16W D	
R7602	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R7604	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R7605	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R7606	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R7607	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R7608	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R7609	NRVA63D-223X	CMF RESISTOR	22kΩ 1/16W D	
R7610	NRVA63D-433X	CMF RESISTOR	43kΩ 1/16W D	
R7611	NRVA63D-821X	CMF RESISTOR	820Ω 1/16W D	
R7612	NRVA63D-223X	CMF RESISTOR	22kΩ 1/16W D	
R7613	NRVA63D-223X	CMF RESISTOR	22kΩ 1/16W D	
R7614	NRVA63D-223X	CMF RESISTOR	22kΩ 1/16W D	
R7615	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R7616	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R7617	NRSA02J-330X	MG RESISTOR	33Ω 1/10W J	
R7618	NRSA02J-330X	MG RESISTOR	33Ω 1/10W J	
R7619	NRSA63D-103X	MG RESISTOR	10kΩ 1/16W D	
R7626	NRVA63D-563X	CMF RESISTOR	56kΩ 1/16W D	
R7627	NRSA63J-335X	MG RESISTOR	3.3MΩ 1/16W J	
R7630	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R7634	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R7636	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R7637	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R7638	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R7639	NRSA63D-912X	MG RESISTOR	9.1kΩ 1/16W D	
R7643	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R7644	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R7646	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R7648	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R7663	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
L10	NQR0129-002X	FERRITE BEADS		B,C,D
L7601	NQL38DK-100X	P COIL	10uH K	
L7602	NQL38DK-100X	P COIL	10uH K	
L7603	NQL38DK-100X	P COIL	10uH K	
L7604	NQL38DK-100X	P COIL	10uH K	
L7605	NQL38DK-100X	P COIL	10uH K	
L7607	NQL38DK-100X	P COIL	10uH K	
CN761	QGF0508F1-40X	CONNECTOR	MAIN FFC/FPC (1-40)	
CN762	QGF0532F2-10X	CONNECTOR	DSC FFC/FPC (1-10)	B,C,D
CN763	QGF0532F2-20X	CONNECTOR	2.5 FFC/FPC (1-20)	
CN765	QGF0506F2-32X	CONNECTOR	LCD BL FFC/FPC (1-32)	
CN766	NNZ0058-001X	SD CARD CONNECTOR	SD/MMC	B,C,D
J7601	QND0087-001	S JACK		
SW2	NSW0198-001X	TACT SWITCH	STOP	
SW3	NSW0198-001X	TACT SWITCH	REW	
SW4	NSW0198-001X	TACT SWITCH	FF	
SW5	NSW0198-001X	TACT SWITCH	PLAY/PAUSE	
SW6	NSW0099-001X	SLIDE SWITCH	DSC	B,C,D
SW7	NSW0198-001X	TACT SWITCH		B,C,D
SW8	NSW0198-001X	TACT SWITCH		B,C,D
SW7601	QSW0451-001	DETECT SW	2.5 OPN SW	
OT1	LY30030-0V7A	SPACER(A)	(x2)	
OT2	LY30034-003A	SPACER(A)		
WR1	QUQ105-4007AA	FFC WIRE	MAIN-M.FFC	
WR2	QUQ105-1007AA	FFC WIRE	MAIN-M.FFC	B,C,D

MONI-C BOARD ASSEMBLY <02> [K TYPE]

NOTE :

There are two types of VF(COLOR) ASSEMBLY used for this model: S type and K type.

For methods to distinguish the two types, see Cover Page.

⚠ Symbol No.	Part No.	Part Name	Description	Local
PW1	YB10453B	MONI-C BOARD ASSY		A
PW1	YB10453A-01	MONI-C BOARD ASSY		B,C,D
IC7601	AN2540FHQ	IC		
IC7602	RC4558D-X	IC		
IC7604	SN74LV08APW-X	IC		
IC7606	MM1613AN-X	IC		
Q7601	2SC4617/QR/-X	TRANSISTOR		
Q7601	or 2SC4738/YG/-X	TRANSISTOR		
Q7601	or 2SD2216J/QR/-X	TRANSISTOR		
Q7601	or BC847BT-X	TRANSISTOR		
Q7602	2SA1774/QR/-X	TRANSISTOR		
Q7602	or 2SA1832/YG/-X	TRANSISTOR		
Q7602	or BC857BT-X	TRANSISTOR		
Q7602	or 2SB1462J/QR/-X	TRANSISTOR		
Q7603	2SC4617/QR/-X	TRANSISTOR		
Q7603	or 2SC4738/YG/-X	TRANSISTOR		
Q7603	or 2SD2216J/QR/-X	TRANSISTOR		
Q7603	or BC847BT-X	TRANSISTOR		
Q7604	2SA1774/QR/-X	TRANSISTOR		
Q7604	or 2SA1832/YG/-X	TRANSISTOR		
Q7604	or BC857BT-X	TRANSISTOR		
Q7604	or 2SB1462J/QR/-X	TRANSISTOR		
Q7605	DTC144EE-X	DIGI TRANSISTOR	KOPIN	
Q7605	or UN9213J-X	DIGI TRANSISTOR	KOPIN	
Q7605	or RN1104-X	DIGI TRANSISTOR	KOPIN	
Q7605	or BCR148T-X	DIGI TRANSISTOR	KOPIN	
Q7608	DTC144EE-X	DIGI TRANSISTOR		
Q7608	or UN9213J-X	DIGI TRANSISTOR		
Q7608	or RN1104-X	DIGI TRANSISTOR		
Q7608	or BCR148T-X	DIGI TRANSISTOR		
Q7609	DTC144EE-X	DIGI TRANSISTOR		
Q7609	or UN9213J-X	DIGI TRANSISTOR		
Q7609	or RN1104-X	DIGI TRANSISTOR		
Q7609	or BCR148T-X	DIGI TRANSISTOR		
Q7610	DTA144EE-X	DIGI TRANSISTOR		
Q7610	or UN9113J-X	DIGI TRANSISTOR		
Q7610	or RN2104-X	DIGI TRANSISTOR		
Q7610	or BCR198T-X	DIGI TRANSISTOR		
D7602	BAS16-03W-X	SI DIODE		
D7604	MA8068-X	Z DIODE		
C1	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C10	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	B,C,D
C11	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	B,C,D
C7601	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C7603	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	

MODEL	MARK	MODEL	MARK
GR-D32US	A	GR-D72US	C
GR-D71US	B	GR-D74US	D

⚠ Symbol No.	Part No.	Part Name	Description	Local
C7604	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	
C7605	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	
C7606	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C7607	NCB41CK-106X	C CAPACITOR	10uF 16V K	
C7609	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C7610	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	
C7611	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	
C7612	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	
C7613	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	
C7614	NCB31HK-152X	C CAPACITOR	1500pF 50V K	
C7616	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C7618	NBE90JM-106X	TA E CAPACITOR	10uF 6.3V M	
C7619	NBE90JM-106X	TA E CAPACITOR	10uF 6.3V M	
C7621	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C7622	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C7623	NBE21AM-106X	TA E CAPACITOR	10uF 10V M	
C7624	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C7625	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C7626	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C7627	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C7628	NBP41EM-475X-B	TA E CAPACITOR	4.7uF 25V M	
C7629	NBP21CM-335X	TA E CAPACITOR	3.3uF 16V M	
C7630	NBP41EM-475X-B	TA E CAPACITOR	4.7uF 25V M	
C7632	NBP41EM-475X-B	TA E CAPACITOR	4.7uF 25V M	
C7634	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	
C7637	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C7639	NBP41CM-106X	TA E CAPACITOR	10uF 16V M	
C7642	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C7653	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C7654	NCB21AK-105X	C CAPACITOR	1uF 10V K	
C7655	NBE21AM-106X	TA E CAPACITOR	10uF 10V M	
R3	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R5	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R6	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R7	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	B,C,D
R8	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	B,C,D
R9	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	B,C,D
R18	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	B,C,D
R19	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	B,C,D
R21	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	B,C,D
R22	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	B,C,D
R23	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	B,C,D
R25	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	B,C,D
R29	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	B,C,D
R30	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	B,C,D
R31	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	B,C,D
R32	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	B,C,D
R7601	NRVA63D-622X	CMF RESISTOR	6.2kΩ 1/16W D	
R7602	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R7604	NRSA63D-273X	MG RESISTOR	27kΩ 1/16W D	
R7605	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R7606	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R7607	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R7608	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R7609	NRVA63D-223X	CMF RESISTOR	22kΩ 1/16W D	
R7610	NRVA63D-433X	CMF RESISTOR	43kΩ 1/16W D	
R7611	NRVA63D-821X	CMF RESISTOR	820Ω 1/16W D	
R7612	NRVA63D-223X	CMF RESISTOR	22kΩ 1/16W D	
R7613	NRVA63D-223X	CMF RESISTOR	22kΩ 1/16W D	
R7614	NRVA63D-223X	CMF RESISTOR	22kΩ 1/16W D	
R7615	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R7616	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R7617	NRSA02J-330X	MG RESISTOR	33Ω 1/10W J	
R7618	NRSA02J-330X	MG RESISTOR	33Ω 1/10W J	
R7619	NRSA63D-103X	MG RESISTOR	10kΩ 1/16W D	
R7621	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R7622	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R7630	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R7634	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R7636	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R7637	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R7638	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R7639	NRSA63D-912X	MG RESISTOR	9.1kΩ 1/16W D	
R7640	NRSA63D-273X	MG RESISTOR	27kΩ 1/16W D	
R7641	NRSA63D-332X	MG RESISTOR	3.3kΩ 1/16W D	
R7642	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R7645	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R7647	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R7648	NRSA63D-183X	MG RESISTOR	18kΩ 1/16W D	
R7651	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R7653	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R7654	NRSA63D-122X	MG RESISTOR	1.2kΩ 1/16W D	
R7655	NRSA63D-333X	MG RESISTOR	33kΩ 1/16W D	
R7663	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R7664	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R7665	NRSA63D-683X	MG RESISTOR	68kΩ 1/16W D	
R7666	NRSA63D-473X	MG RESISTOR	47kΩ 1/16W D	
R7667	NRSA63D-561X	MG RESISTOR	560Ω 1/16W D	
L10	NQR0129-002X	FERRITE BEADS		B,C,D
L7601	NQL38DK-100X	P COIL	10uH K	
L7602	NQL38DK-100X	P COIL	10uH K	
L7603	NQL38DK-100X	P COIL	10uH K	
L7604	NQL38DK-100X	P COIL	10uH K	
L7605	NQL38DK-100X	P COIL	10uH K	
L7607	NQL38DK-100X	P COIL	10uH K	
CN761	QGF0508F1-40X	CONNECTOR	MAIN FFC/FPC (1-40)	
CN762	QGF0532F2-10X	CONNECTOR	DSC FFC/FPC (1-10)	B,C,D
CN763	QGF0532F2-20X	CONNECTOR	2.5 FFC/FPC (1-20)	
CN765	QGF0506F2-32X	CONNECTOR	LCD BL FFC/FPC (1-32)	
CN766	NNZ0058-001X	SD CARD CONNE	SD/MMC	B,C,D
J7601	QND0087-001	S JACK		
SW2	NSW0198-001X	TACT SWITCH	STOP	
SW3	NSW0198-001X	TACT SWITCH	REW	
SW4	NSW0198-001X	TACT SWITCH	FF	
SW5	NSW0198-001X	TACT SWITCH	PLAY/PAUSE	
SW6	NSW0099-001X	SLIDE SWITCH	DSC	B,C,D
SW7	NSW0198-001X	TACT SWITCH		B,C,D
SW8	NSW0198-001X	TACT SWITCH		B,C,D
SW7601	QSW0451-001	DETECT SW	2.5 OPN SW	
OT1	LY30030-0V7A	SPACER(A)	(x2)	
WR1	QUQ105-4007AA	FFC WIRE	MAIN-M.FFC	
WR2	QUQ105-1007AA	FFC WIRE	MAIN-M.FFC	B,C,D

BL2.5 BOARD ASSEMBLY <03>

⚠ Symbol No.	Part No.	Part Name	Description	Local
PW1	YB20964A	BL2.5 BOARD ASSY		
IC7504	DN8797MS-X	IC	TEZUKE	
Q7501	2SD1664/QR/-W	TRANSISTOR		
Q7502	2SD1664/QR/-W	TRANSISTOR		
Q7503	DTA144EE-X	DIGI TRANSISTOR		
Q7503 or	UN9113J-X	DIGI TRANSISTOR		
Q7503 or	RN2104-X	DIGI TRANSISTOR		
Q7503 or	BCR198T-X	DIGI TRANSISTOR		
Q7504	DTC144EE-X	DIGI TRANSISTOR		
Q7504 or	UN9213J-X	DIGI TRANSISTOR		
Q7504 or	RN1104-X	DIGI TRANSISTOR		
Q7504 or	BCR148T-X	DIGI TRANSISTOR		
C7501	NCZ1016-120X	C CAPACITOR	12pF 2kV J	
C7502	NCB21EK-273X	C CAPACITOR	0.027uF 25V K	
C7503	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C7504	NCB10JK-106X	C CAPACITOR	10uF 6.3V K	
R7501	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R7502	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R7503	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R7504	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R7511	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R7512	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R7513	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
L7501	NQLZ010-680X	COIL	68uH	
T7501	NQS0056-001X	SW TARNSF		
CN7601	QGF0534F1-16X	CONNECTOR	FFC/FPC (1-16)	
CN7602	QGF0534F1-16X	CONNECTOR	FFC/FPC (1-16)	

MODEL	MARK	MODEL	MARK
GR-D32US	A	GR-D72US	C
GR-D71US	B	GR-D74US	D

⚠ Symbol No.	Part No.	Part Name	Description	Local
CN7603	QGF0534F1-24X	CONNECTOR	FFC/FPC (1-24)	
⚠ F7501	NMFZ007-R40X-K	FUSE	0.4A 50V	
WR1	QAL0464-001	FPC	TEZUKE	

CCD BOARD ASSEMBLY <04>

⚠ Symbol No.	Part No.	Part Name	Description	Local
PW1	YB20963B-01-SS	CCD BOARD ASSY		A
PW1	YB20963A-01-SS	CCD BOARD ASSY		B,C,D
Q5001	2SC3931/CD/-X	TRANSISTOR		
Q5002	2SC4081/QR/-X	TRANSISTOR	2SC4081	B,C,D
Q5002 or	BC847BW-X	TRANSISTOR		B,C,D
C5001	NBP41EM-475X-B	TA E CAPACITOR	4.7uF 25V M	
C5002	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C5003	NBE21AM-106X	TA E CAPACITOR	10uF 10V M	
C5004	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C5005	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C5006	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C5007	NCB31EK-222X	C CAPACITOR	2200pF 25V K	
R5001	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R5002	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R5005	NRS181J-472X	MG RESISTOR	4.7kΩ 1/8W J	B,C,D
R5007	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
L5001	NQL144K-100X	P COIL	0.30Ω 10uH K	
L5002	NQL38DK-100X	P COIL	10uH K	

PREMDA BOARD ASSEMBLY <05>

⚠ Symbol No.	Part No.	Part Name	Description	Local
PW1	YB10445A-02	PREMDA BOARD ASSY		
⚠ IC1601	BD6637KV	IC	MDA 64PIN	
IC1701	BA10358FVM-W	IC	REELAMP5V	
IC1702	LM393DR-X	IC	REELSMT	
IC3501	JCY0132	IC		
IC3502	SN74AHC1G04K-X	IC		
IC3502 or	SN74AHC1G04DC-X	IC(DIGITAL)		
Q1601	UMC3N-W	DIGI TRANSISTOR	LD ON	
D1602	DAP222-X	DIODE ARRAY	LD OUT	
D1602 or	MA132WA-X	SI DIODE		
D1603	DAP222-X	DIODE ARRAY	LD ON	
D1603 or	MA132WA-X	SI DIODE		
D1604	DAP222-X	DIODE ARRAY	C.ERR-3V	
D1604 or	MA132WA-X	SI DIODE		
C1601	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C1602	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
C1603	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
C1605	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1606	NCB31HK-152X	C CAPACITOR	1500pF 50V K	
C1607	NCB31CK-473X	C CAPACITOR	0.047uF 16V K	
C1614	NBE21AM-106X	TA E CAPACITOR	10uF 10V M	
C1618	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
C1619	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
C1620	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
C1621	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C1622	NCB31CK-223X	C CAPACITOR	0.022uF 16V K	
C1623	NCB31CK-473X	C CAPACITOR	0.047uF 16V K	
C1624	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C1625	NCS31HJ-101X	C CAPACITOR	100pF 50V J	
C1626	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C1627	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C1628	NCB21CK-224X	C CAPACITOR	0.22uF 16V K	
C1629	NCB21EK-224X	C CAPACITOR	0.22uF 25V K	
C1630	NCB21EK-224X	C CAPACITOR	0.22uF 25V K	
C1631	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
C1632	NCB21CK-474X	C CAPACITOR	0.47uF 16V K	
C1633	NCB21CK-474X	C CAPACITOR	0.47uF 16V K	
C1701	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1702	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3501	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
C3502	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
C3503	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
C3504	NCB31CK-473X	C CAPACITOR	0.047uF 16V K	
C3505	NCB31CK-223X	C CAPACITOR	0.022uF 16V K	
C3506	NCB21AK-105X	C CAPACITOR	1uF 10V K	
C3507	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C3508	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C3509	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C3510	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3511	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C3512	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3513	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3514	NCB31CK-473X	C CAPACITOR	0.047uF 16V K	
C3515	NCB31CK-473X	C CAPACITOR	0.047uF 16V K	
C3516	NCB31CK-473X	C CAPACITOR	0.047uF 16V K	
C3517	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C3518	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C3519	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C3520	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C3521	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3522	NCB20JM-475X	C CAPACITOR	4.7uF 6.3V M	
C3523	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C3524	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C3525	NCB20JM-475X	C CAPACITOR	4.7uF 6.3V M	
C3526	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C3527	NDC31HJ-221X	C CAPACITOR	220pF 50V J	
C3528	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
R1601	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J	
R1602	NRSA63J-124X	MG RESISTOR	120kΩ 1/16W J	
R1603	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R1604	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R1610	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	
R1611	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	
R1612	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R1613	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1614	NRZ0072-R330X	MG RESISTOR	0.33Ω 1/4W F	
R1616	NRSA63D-392X	MG RESISTOR	3.9kΩ 1/16W D	
R1617	NRZ0072-R330X	MG RESISTOR	0.33Ω 1/4W F	
R1620	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J	
R1621	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1622	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1624	NRSA63D-183X	MG RESISTOR	18kΩ 1/16W D	
R1625	NRSA63D-681X	MG RESISTOR	680Ω 1/16W D	
R1629	NRSA63J-564X	MG RESISTOR	560kΩ 1/16W J	
R1630	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1631	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1635	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R1636	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	
R1637	NRSA63J-154X	MG RESISTOR	150kΩ 1/16W J	
R1638	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1639	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
R1640	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
R1641	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1642	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1701	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J	
R1702	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R1703	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R1704	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R1705	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R1706	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J	
R1707	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1708	NRSA63J-124X	MG RESISTOR	120kΩ 1/16W J	
R1709	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1710	NRSA63J-124X	MG RESISTOR	120kΩ 1/16W J	
R1711	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1712	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3501	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R3502	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R3503	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3504	NRSA63D-241X	MG RESISTOR	240Ω 1/16W D	
R3505	NRSA63D-241X	MG RESISTOR	240Ω 1/16W D	

MODEL	MARK	MODEL	MARK
GR-D32US	A	GR-D72US	C
GR-D71US	B	GR-D74US	D

⚠ Symbol No.	Part No.	Part Name	Description	Local
R3506	NRSA63D-241X	MG RESISTOR	240Ω 1/16W D	
R3507	NRSA63D-241X	MG RESISTOR	240Ω 1/16W D	
R3508	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R3511	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
L3501	NQR0006-001X	FERRITE BEADS		
L3502	NQL402M-100X	COIL	10uH M	
L3503	NQR0006-001X	FERRITE BEADS		
L3504	NQR0006-001X	FERRITE BEADS		
L3505	NQR0006-001X	FERRITE BEADS		
CN401	QGF0508F1-40X	CONNECTOR	MAIN1(PRE) FFC/FPC (1-40)	
CN402	QGF0520F1-08X	CONNECTOR	HEAD FFC/FPC (1-8)	
CN403	QGF0505F2-06X	CONNECTOR	LOADING FFC/FPC (1-6)	
CN404	QGF0534F1-11X	CONNECTOR	DRUM FFC/FPC (1-11)	
CN405	QGF0534F1-18X	CONNECTOR	CAPSTAN FFC/FPC (1-18)	
CN406	QGF0505F2-16X	CONNECTOR	SENSOR FFC/FPC (1-16)	
CN407	QGF0508F1-06X	CONNECTOR	ROT E SW FFC/FPC (1-6)	
CN408	QGF0508F1-40X	CONNECTOR	MAIN2(MDA) FFC/FPC (1-40)	
⚠ F1601	NMFZ007-R20X-K	FUSE	1608 UNREG 0.2A 50V	
⚠ F1602	NMFZ007-R50X-K	FUSE	1608 REG3V 0.5A 50V	
SD1	LY33021-001A	SHIELD COVER(P/R)	PRE S-CASE	

FRONT BOARD ASSEMBLY <06>

⚠ Symbol No.	Part No.	Part Name	Description	Local
PW1	YB10446A-01	FRONT BOARD ASSY		
Q9001	BC847PN-X	PAIR TRANSISTOR		
Q9002	BC847PN-X	PAIR TRANSISTOR		
Q9003	2SC4617/RS/-X	TRANSISTOR	ON/OFF	
D9001	NSPW500BS/CRS/	LED	LIGHTLED	
D9002	NSPW500BS/CRS/	LED	LIGHTLED	
R9001	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	
R9002	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R9003	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R9004	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	
R9005	NRSA63J-270X	MG RESISTOR	27Ω 1/16W J	
R9006	NRSA63J-270X	MG RESISTOR	27Ω 1/16W J	
R9007	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
CN9001	QGF0508F1-06X	CONNECTOR	FFC/FPC (1-6)	
SW9001	NSW0150-001X	PUSH SWITCH	EJECT	
HD1	LY33654-001A	HOLDER(LED)		
OT1	LY30031-003A	SPECIAL SCREW		
WR1	QUQ105-06X2AA	FFC WIRE	FRONT FFC	

C-VF BOARD ASSEMBLY <07> [S TYPE]

NOTE :

There are two types of VF(COLOR) ASSEMBLY used for this model: S type and K type.
For methods to distinguish the two types, see Cover Page.

⚠ Symbol No.	Part No.	Part Name	Description	Local
PW1	YB20941A	C-VF BOARD ASSY		
Q7001	PUMX1-W	PAIR TRANSISTOR		
Q7001 or	BC847S-X	PAIR TRANSISTOR		
D7001	E1S35AW0C501-X	LED		
C7001	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
R7001	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R7002	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	
R7003	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
CN7001	QGF0532F2-18X	CONNECTOR	FFC/FPC (1-18)	
CN7002	QGF0507F3-16X	CONNECTOR	FFC/FPC (1-16)	

C-VF BOARD ASSEMBLY <07> [K TYPE]

NOTE :

There are two types of VF(COLOR) ASSEMBLY used for this model: S type and K type.
For methods to distinguish the two types, see Cover Page.

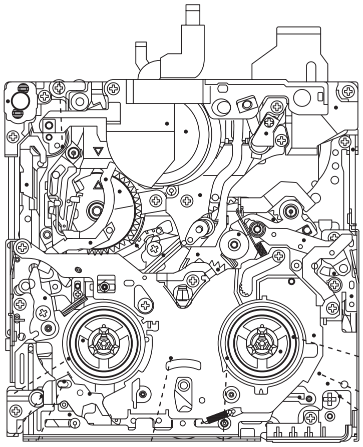
⚠ Symbol No.	Part No.	Part Name	Description	Local
PW1	YB20965A-01	C-VF BOARD ASSY		
Q7001	PUMX1-W	PAIR TRANSISTOR		
Q7001 or	BC847S-X	PAIR TRANSISTOR		
D7001	E1S35AW0C501-X	LED		
C7004	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C7005	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
R7001	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R7002	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	
R7003	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
R7004	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R7005	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
CN7001	QGF0532F2-18X	CONNECTOR	FFC/FPC (1-18)	
CN7002	QGF0507F3-20X	CONNECTOR	FFC/FPC (1-20)	

JVC

SERVICE MANUAL

MECHANISM ASSEMBLY

DVC MECHANISM
VHS-C MECHANISM
VHS MECHANISM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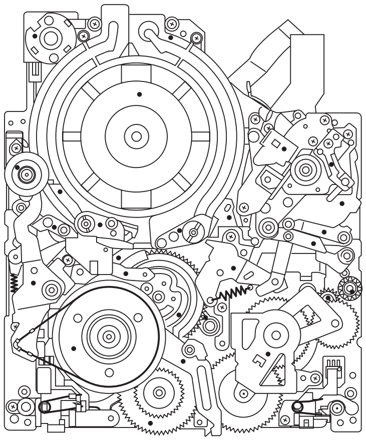
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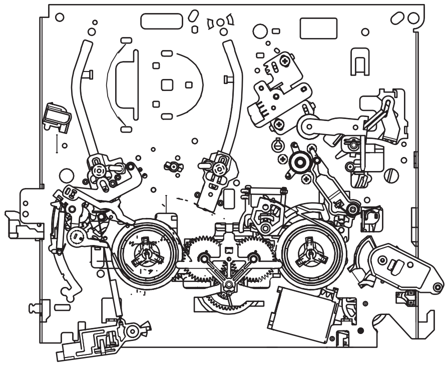
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3 PARTS LIST 3-1

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No.86700
2003/04

SECTION 1
JIGS AND TOOLS

1.1 TOOLS REQUIRED FOR ADJUSTMENTS

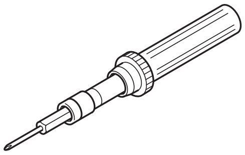
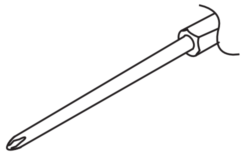
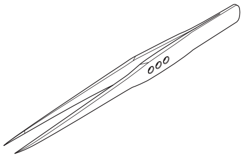
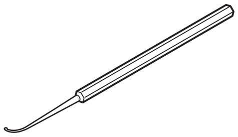
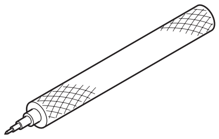
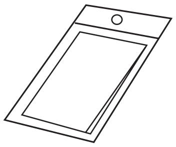
1. Torque driver YTU94088	2. Bit YTU94088-003
	
3. Tweezers P-895	4. Chip IC replacement jig PTS40844-2
	
5. Slit washer installation jig YTU94121A	6. Cleaning cloth KSMM-01
	

Fig.1-1-1

1. Torque driver

Be sure to use to fastening the mechanism and exterior parts because those parts must strictly be controlled for tightening torque.

Torque setting value of torque driver is limited. At the values over the maximum torque setting value, fasten a screw manually not to damage the screw thread.

2. Bit

This bit is slightly longer than those set in conventional torque drivers.

3. Tweezers

To be used for removing and installing parts and wires.

4. Chip IC replacement jig

To be used for replacement of part.

5. Slit washer installation jig

To be used to install slit washers.

6. Cleaning cloth

Recommended cleaning cloth to wipe down the video heads, mechanism (tape transport system), optical lens surface.

SECTION 2
SPECIFIC SERVICE INSTRUCTIONS

2.1 DVC MECHANISM

2.1.1 Precautions

(1) When fastening parts, pay careful attention to the tightening torque of each screw. Unless otherwise specified, tighten a screw with the torque of 0.055 N•m (0.56 kgf•cm).
(2) Be sure to disconnect the set from the power supply before fastening and soldering parts.
(3) When disconnecting/connecting wires, be careful not to get them and their connectors damaged.
(4) When replacing parts, be very careful neither to damage other parts nor to fit wrong parts by mistake.

2.1.2 Notes on procedure for disassembly/assembly

The disassembling procedure table (Fig. 2-1-10 on page 2-4,a part of the table is shown below for reference)shows the procedure to disassemble/reassemble mechanism parts.
Carefully read the following explanation before starting actual disassembling/reassembling work. The item numbers(circled numbers)in the following explanation correspond to those appearing under respective columns of the table.

Example

NO.	PART NAME		FIG.	POINT	NOTE	REMARKS
[1]	CASSETTE HOUSING ASSY	T	Fig.2-4-3	3(S1),(L1a)-(L1e)	**NOTE 1 a,b,c,d**	ADJUSTMENT
[2]	UPPER BASE ASSY	T	Fig.2-4-4	(S2),(L2a),(L2b)	**NOTE 2**	
[3]	DRUM ASSY	T		(S3a),2(S3b)	**NOTE 3 a,b**	
[4]	REEL DISK ASSY(SUP)	T	Fig.2-4-5	(W4)	**NOTE 4 a**	
[5]	REEL DISK ASSY(TU)	T		(W5a),(W5b),(W5c)	**NOTE 5 a,b**	
[6]	REEL COVER ASSY	T		(W6),(S6a),2(S6b)	**NOTE 6**	ADJUSTMENT

*1 *2 *3 *4 *5 *6 *7

*1 Numbers appearing in this column indicate the order to remove parts. When reassembling, follow these numbers in the reverse order. Circled numbers in this column correspond to those appearing in drawings of this section.
*2 This column shows part names corresponding to numbers in the left column.
*3 The symbol (T or B)appearing in this column shows the side which the objective part is mounted on.
T =the upper side, B =the lower side
*4 Symbols appearing in this column indicate drawing numbers.
*5 This column indicates parts and points such as screws, washers,springs,and others to be removed/fitted for disassembling/reassembling the mechanism. Besides such the parts, this column occasionally indicates working points.

P = Spring
W = Washer
S = Screw
* = Lock (L),soldering (SD),shield,connector (CN),etc.

Example

- Remove (W1)=Washer W1.
- Remove the solder at (SD1)=Point SD1.
- Disconnect A = Connector A.

*6 Numbers in this column represent the numbers of notes in the text.
(For parts that need phase adjustment after reassembling, refer to “MECHANISM ADJUSTMENTS”.)
*7 This column indicates required after-disassembling/-reassembling work such as phase adjustment or mechanism adjustment.

2.1.3 DISASSEMBLY AND ASSEMBLY OF MECHANISM ASSEMBLY

2.1.3.1 General statement

The mechanism should generally be disassembled/assembled in the C.IN mode (ASSEMBLY mode). (Refer to Fig. 2-1-1,2-1-2.) However, when the mechanism is removed from the main body, it is set in the STOP mode. Therefore, after the mechanism is removed from the main body, supply 3 V DC to the electrode on the top of the loading motor to enter the mechanism mode into the C IN mode compulsory.

<Mechanism assembly/Cassette housing assembly>

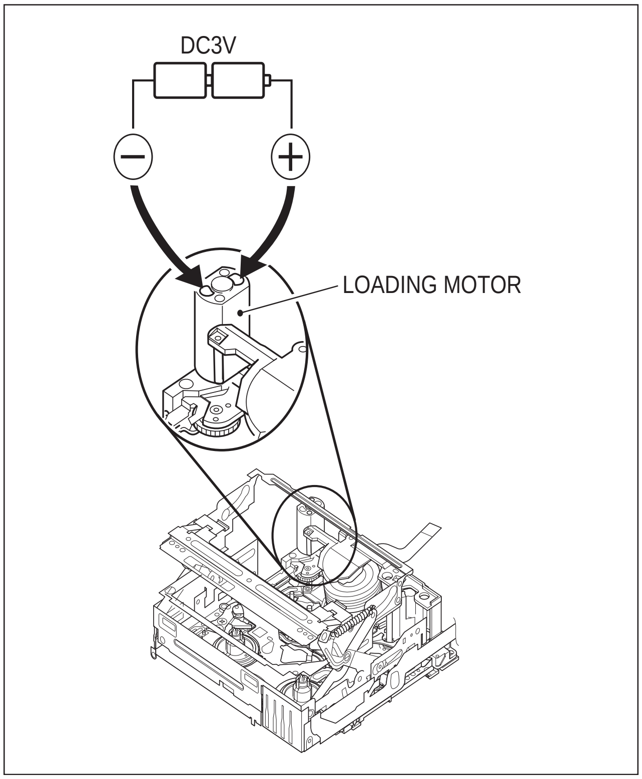


Fig.2-1-1

<Back side of the mechanism assembly>

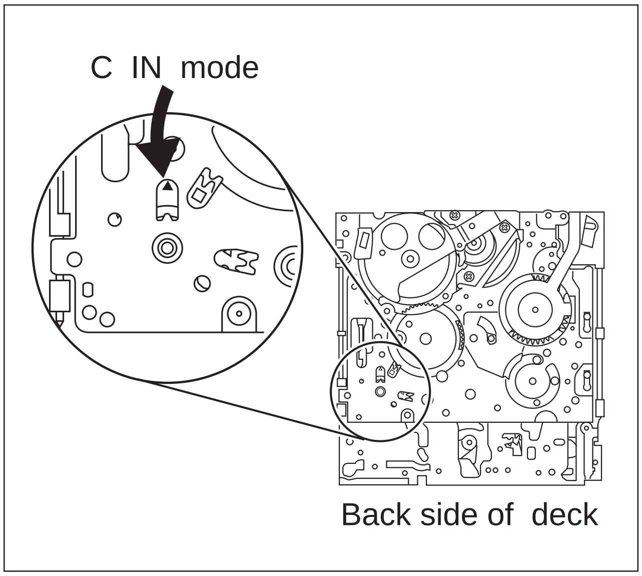


Fig.2-1-2

2.1.3.2 Explanation of mechanism mode

The mechanism mode of this model is classified into five modes as shown in Fig. 2-1-9. Each mechanism mode can be distinguished from others by the relative position of “△”, “○”, “⬭”, “□” marks on the sub cam gear to the inner or outer protrusion on the main deck.

Refer to Fig. 2-1-3 to 2-1-8 below.

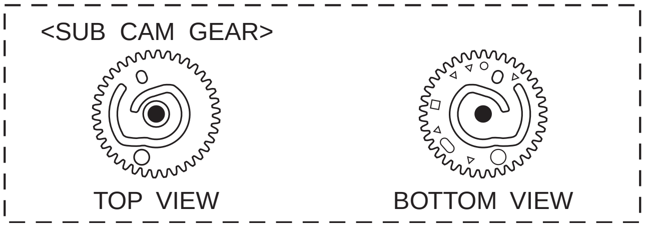


Fig.2-1-3

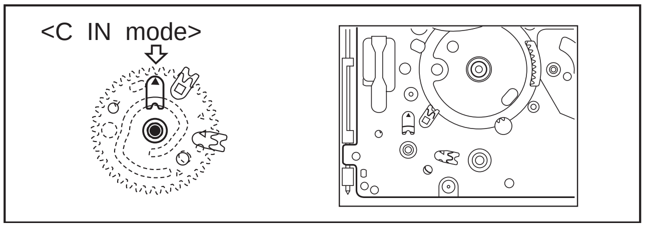


Fig.2-1-4

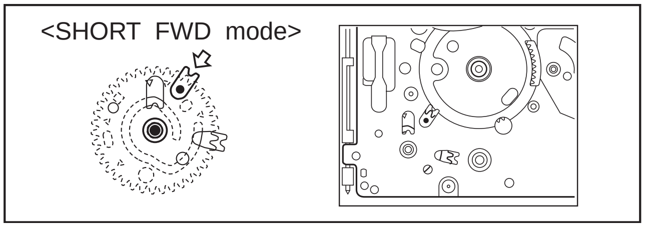


Fig.2-1-5

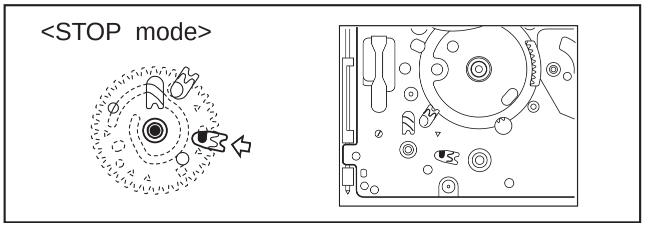


Fig.2-1-6

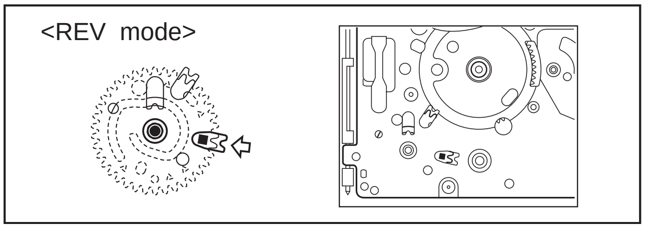


Fig.2-1-7

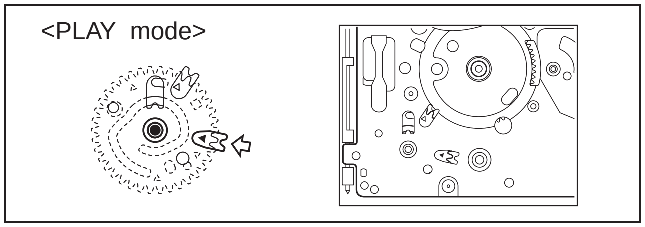


Fig.2-1-8

2.1.3.3 Mechanism timing chart

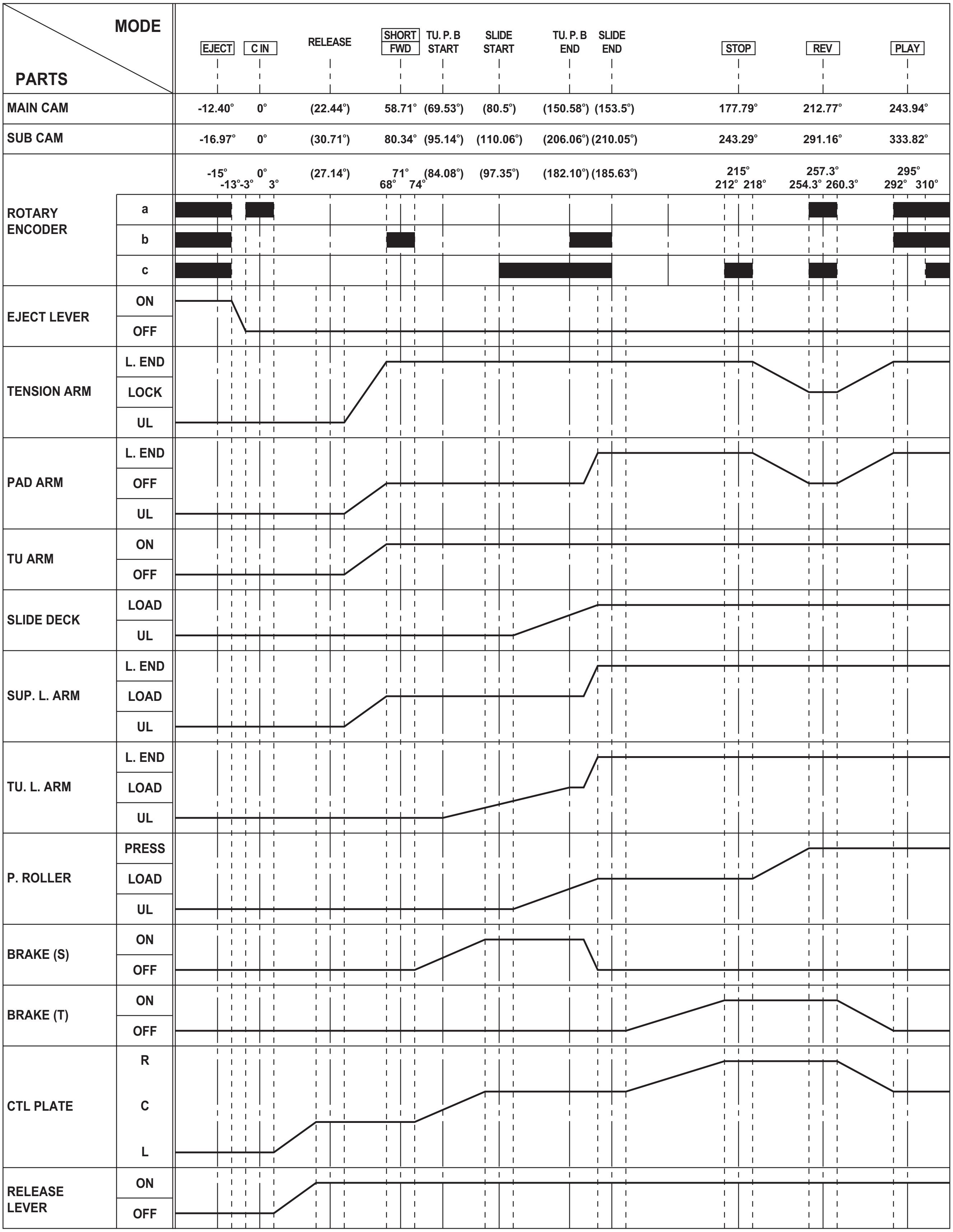

MODE
PARTS
EJECT
C IN
RELEASE
SHORT
FWD
TU. P. B START
SLIDE START
TU. P. B END
SLIDE END
STOP
REV
PLAY
MAIN CAM
-12.40°
0°
(22.44°)
58.71°
(69.53°)
(80.5°)
(150.58°)
(153.5°)
177.79°
212.77°
243.94°
SUB CAM
-16.97°
0°
(30.71°)
80.34°
(95.14°)
(110.06°)
(206.06°)
(210.05°)
243.29°
291.16°
333.82°
-15°
-13°
-3°
0°
3°
(27.14°)
71°
68°
74°
(84.08°)
(97.35°)
(182.10°)
(185.63°)
215°
212°
218°
257.3°
254.3°
260.3°
295°
292°
310°
ROTARY ENCODER
a
b
c
EJECT LEVER
ON
OFF
TENSION ARM
L. END
LOCK
UL
PAD ARM
L. END
OFF
UL
TU ARM
ON
OFF
SLIDE DECK
LOAD
UL
SUP. L. ARM
L. END
LOAD
UL
TU. L. ARM
L. END
LOAD
UL
P. ROLLER
PRESS
LOAD
UL
BRAKE (S)
ON
OFF
BRAKE (T)
ON
OFF
CTL PLATE
R
C
L
RELEASE LEVER
ON
OFF

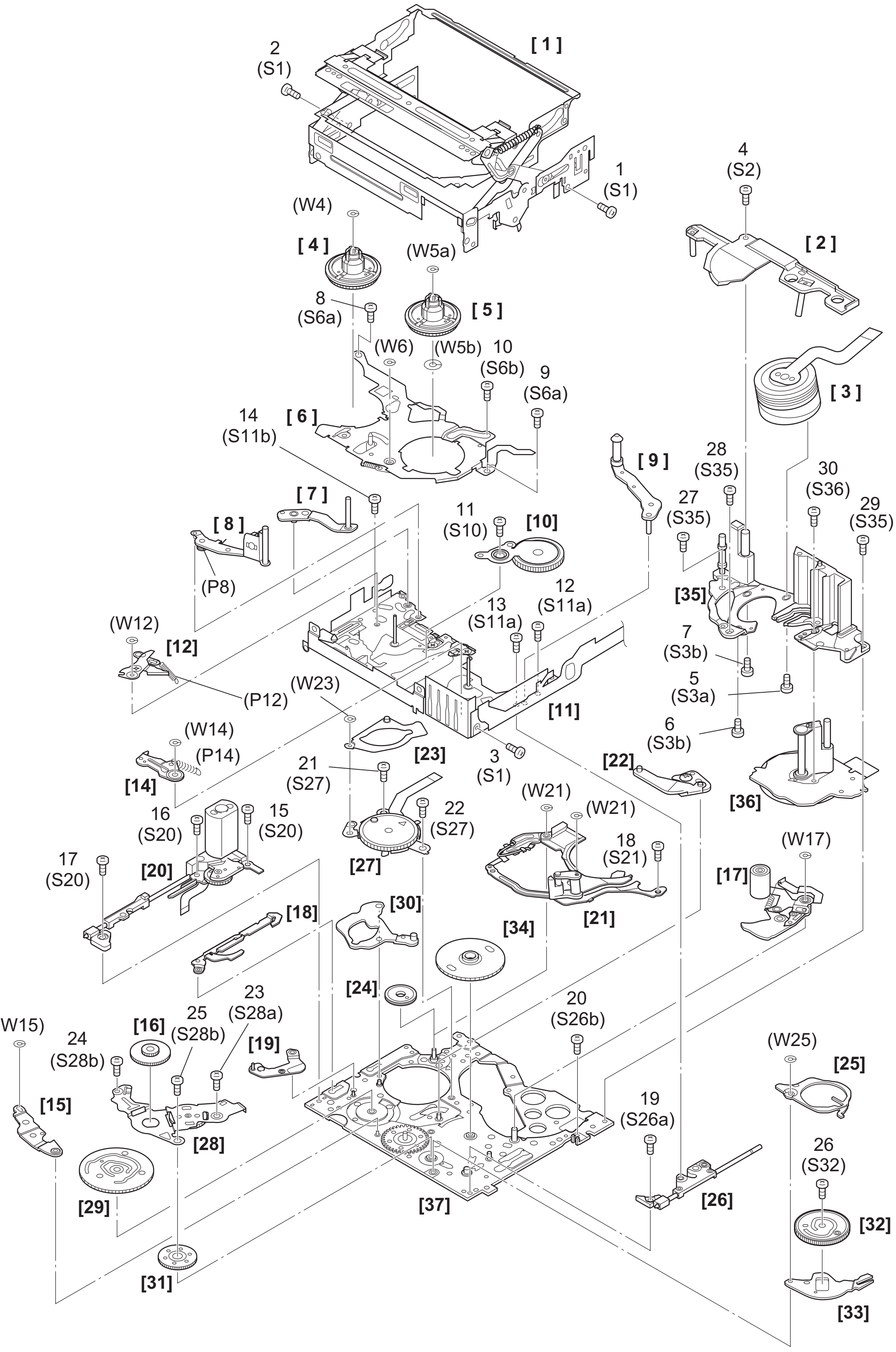
Fig.2-1-9

2.1.4 DISASSEMBLY PROCEDURE TABLE

MARK: # After assembly, perform adjustments.

NO.	PART NAME		FIG.	POINT	NOTE	REMARKS
[1]	CASSETTE HOUSING ASSY	T	Fig.2-1-14	3(S1),(L1a)-(L1e)	**NOTE 1 a,b,c,d**	ADJUSTMENT
[2]	UPPER BASE ASSY	T	Fig.2-1-15	(S2),(L2a),(L2b)	**NOTE 2**	
[3]	DRUM ASSY	T		(S3a),2(S3b)	**NOTE 3 a,b**	ADJUSTMENT
[4]	REEL DISK ASSY(SUP)	T	Fig.2-1-16	(W4)	**NOTE 4**	
[5]	REEL DISK ASSY(TU)	T		(W5a),(W5b)	**NOTE 5 a,b**	
[6]	REEL COVER ASSY	T		(W6),2(S6a),(S6b)	**NOTE 6**	
[7]	TENSION ARM ASSY	T	Fig.2-1-17	(L7)	**NOTE 7**	ADJUSTMENT / #
[8]	SLANT POLE ARM ASSY	T		(P8)	**NOTE 8**	ADJUSTMENT
[9]	TU ARM ASSY	T		(L9)	**NOTE 9**	ADJUSTMENT
[10]	SWING ARM ASSY	T		(S10)	**NOTE 10**	ADJUSTMENT
[11]	SLIDE DECK ASSY	T	Fig.2-1-18	2(S11a),(S11b),2(L11a), 2(L11b),(L11c)	**NOTE 11a,b**	ADJUSTMENT / #
[12]	PAD ARM ASSY	T	Fig.2-1-19	(P12),(L12),(W12)	**NOTE 12**	ADJUSTMENT / #
[13]	-	-		-	-	
[14]	TU BRAKE ASSY	T		(P14),(L14),(W14)	**NOTE 14**	ADJUSTMENT
[15]	TENSION CTL LEVER ASSY	T	Fig.2-1-20	(W15)	**NOTE 15**	ADJUSTMENT
[16]	CENTER GEAR	T		-	**NOTE 16**	
[17]	PINCH ROLLER ARM F. ASSY	T		(W17)	**NOTE 17**	ADJUSTMENT
[18]	TENSION CTL PLATE ASSY	T		-	**NOTE 18**	ADJUSTMENT
[19]	BRAKE CTL LEVER ASSY	T		-	**NOTE 19**	ADJUSTMENT
[20]	MOTOR BRACKET ASSY	T	Fig.2-1-21	3(S20),(L20a),2(L20b)	**NOTE 20**	ADJUSTMENT
[21]	GUIDE RAIL ASSY	T		2(W21),(S21),2(L21a),(L21b)	**NOTE 21**	ADJUSTMENT
[22]	SLIDE LEVER 2 ASSY	T		-	**NOTE 22**	ADJUSTMENT / #
[23]	LOADING PLATE ASSY	T		(W23)	**NOTE 23**	ADJUSTMENT
[24]	MODE GEAR	T		-	**NOTE 24**	
[25]	EJECT LEVER	T		(W25)	**NOTE 25**	ADJUSTMENT
[26]	BASE R ASSY	T	Fig.2-1-22	(S26a),(S26b),2(L26)	**NOTE 26**	ADJUSTMENT
[27]	ROTARY ENCODER	T		2(S27)	**NOTE 27**	PHASE ADJUSTMENT
[28]	GEAR COVER ASSY	T		(S28a),2(S28b)	-	
[29]	MAIN CAM ASSY	T		-	**NOTE 29**	PHASE ADJUSTMENT
[30]	SLIDE ARM ASSY	T	Fig.2-1-23	-	**NOTE 30**	ADJUSTMENT
[31]	CONNECT GEAR 2	T		-	**NOTE 31**	
[32]	SUB CAM ASSY	T		(S32)	**NOTE 32**	PHASE ADJUSTMENT
[33]	CONTROL ARM ASSY	T		-	**NOTE 33**	ADJUSTMENT
[34]	REEL GEAR 1	T		-	**NOTE 34**	
[35] / [36]	DRUM BASE ASSY/ CAPSTAN MOTOR	T	Fig.2-1-24	3(S35)	**NOTE 35a,b**	ADJUSTMENT
[36]	CAPSTAN MOTOR	T		(S36)	**NOTE 36**	ADJUSTMENT
[37]	MAIN DECK ASSY	T		-	-	

Fig.2-1-10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1
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(W6)
(W5b)
10
(S6b)
9
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14
(S11b)
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Fig.2-1-11

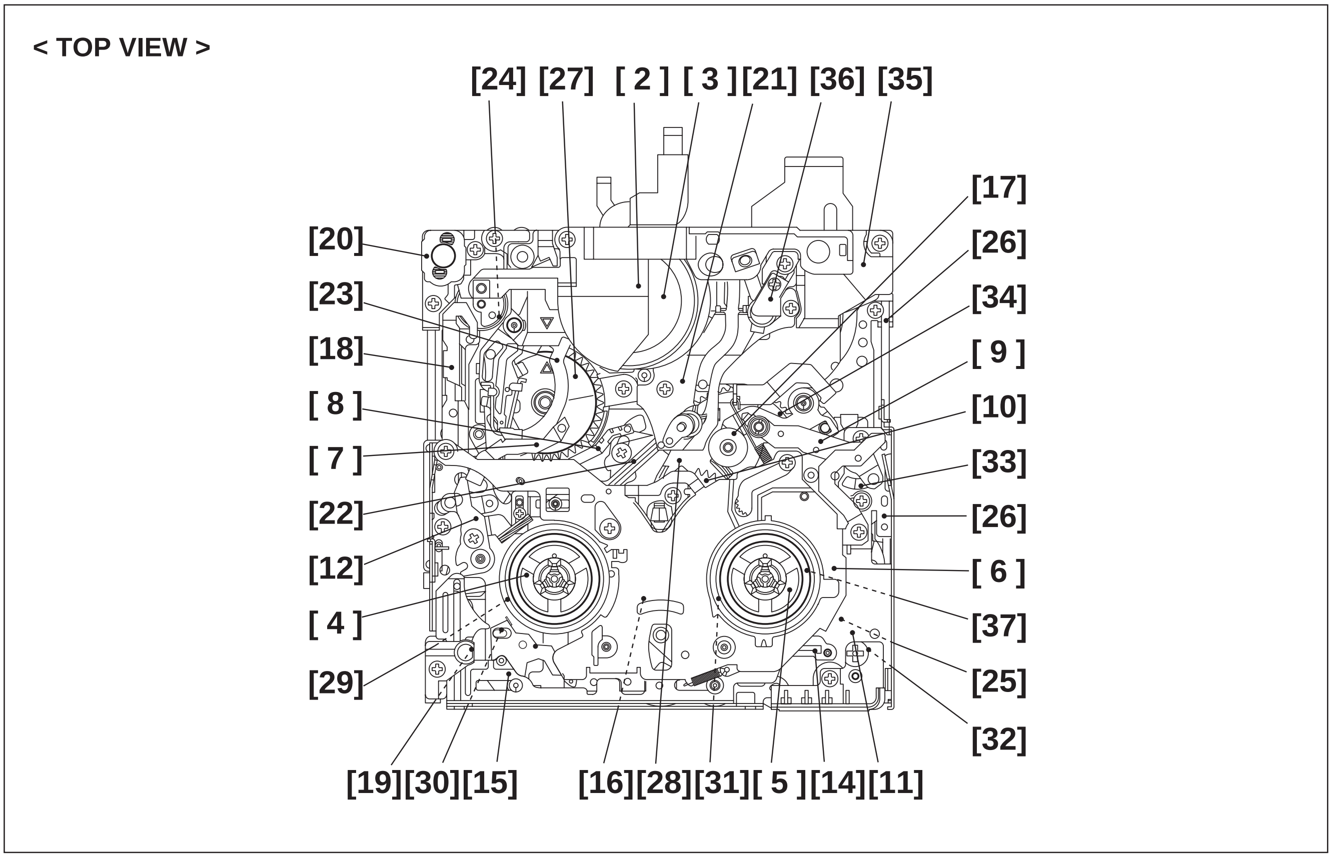
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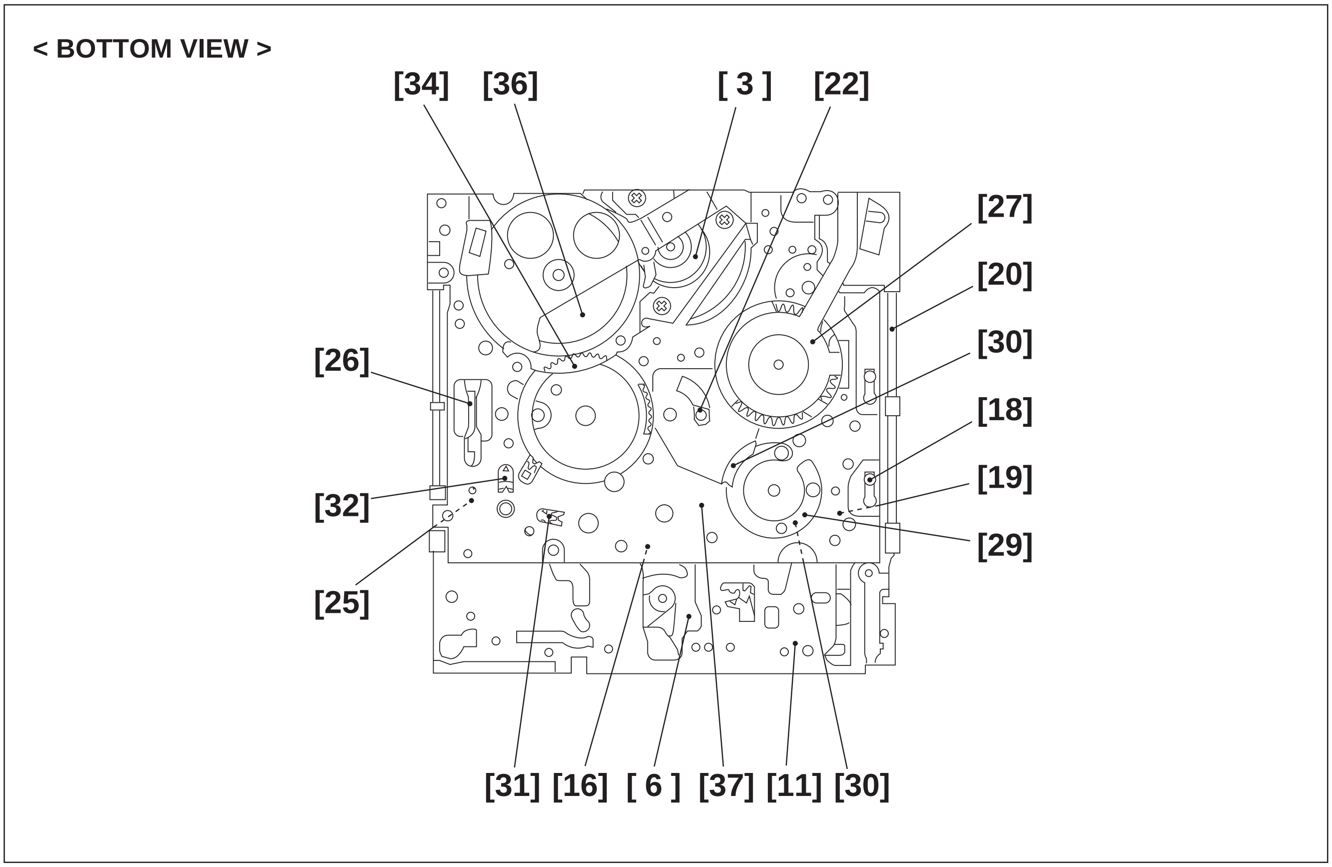
Fig.2-1-12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[32]
[19]
[29]
[25]
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Fig.2-1-13

2.1.5 DISASSEMBLY/ASSEMBLY

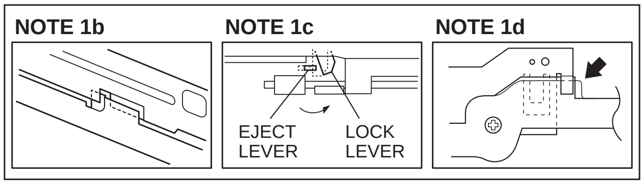
2.1.5.1 [1] CASSETTE HOUSING ASSY

NOTE 1a:
Be careful not to damage any of the parts during work.

NOTE 1b:
Special care is required in mounting.

NOTE 1c:
When mounting, the CASSETTE HOUSING ASSY should be attached in the Eject status. Pay heed to the positions of the LOCK LEVER and EJECT LEVER during mounting.

NOTE 1d:
When mounting, be sure to locate the FPC in the gap.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NOTE 1c
NOTE 1d
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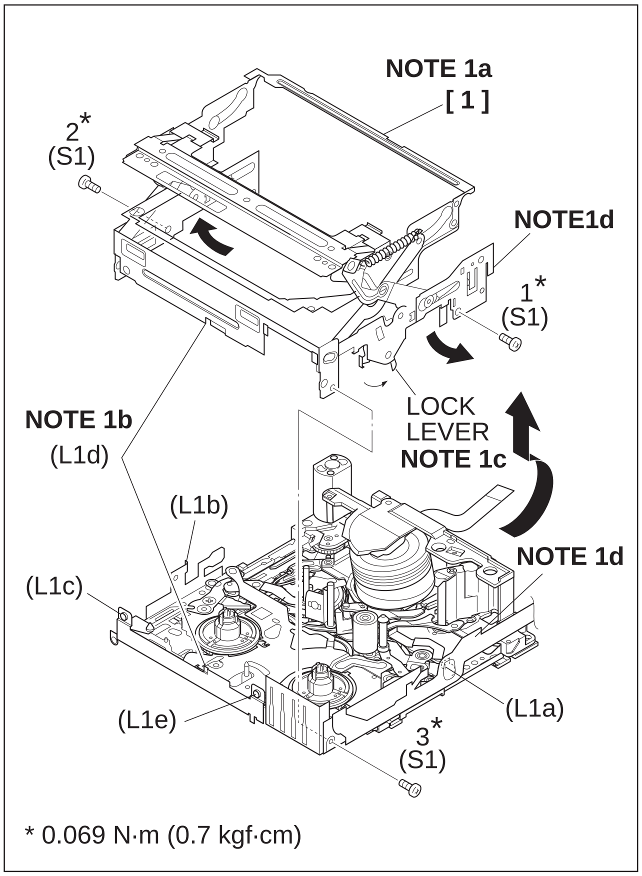
LOCK LEVER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2*
(S1)
NOTE1d
1*
(S1)
LOCK LEVER
NOTE 1c
NOTE 1b
(L1d)
(L1b)
NOTE 1d
(L1c)
(L1e)
(L1a)
3*
(S1)
* 0.069 N·m (0.7 kgf·cm)

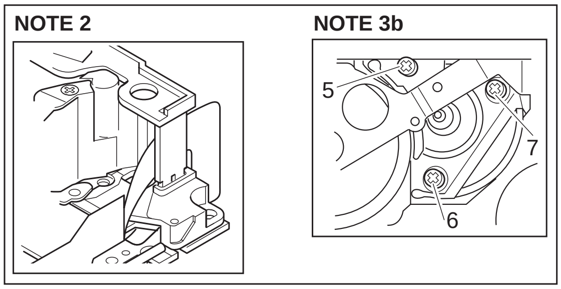
Fig.2-1-14

2.1.5.2 [2] UPPER BASE ASSY
[3] DRUM ASSY

NOTE 2:
When mounting, be sure to insert the FPC reinforcing sheet.

NOTE 3a:
Be mindful of scratches or damage during work.

NOTE 3b:
Be careful not to attach screws incorrectly.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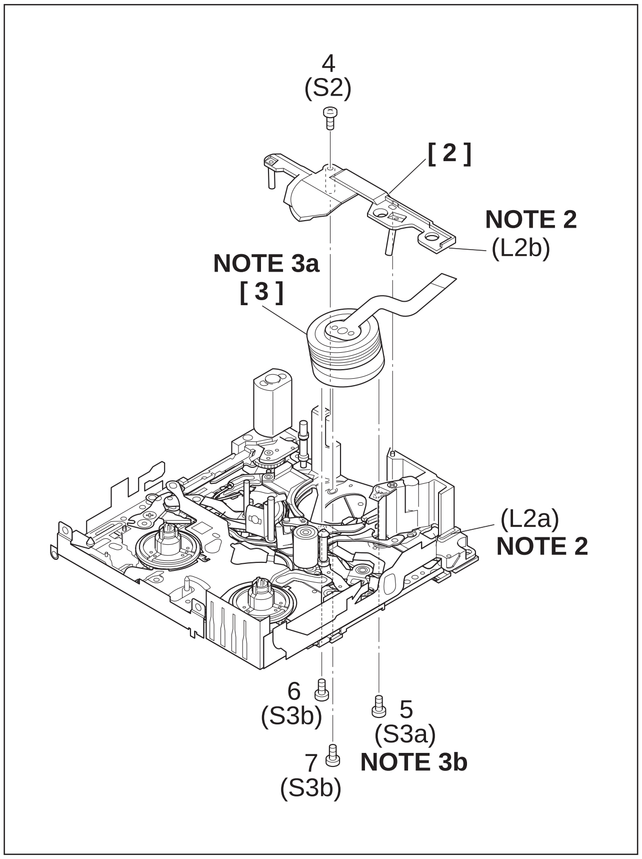
5
7
6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NOTE 2
6
(S3b)
5
(S3a)
NOTE 3b
7
(S3b)

Fig.2-1-15

2.1.5.3 [4] REEL DISK ASSY(SUP)
[5] REEL DISK ASSY(TU)
[6] REEL COVER ASSY

NOTE 4:

Be careful not to attach the REEL DISK wrongly. The Supply side can be identified by the white color at the center.

NOTE 5a:

Be careful not to attach the REEL DISK wrongly. The Take-up side can be identified by the black color at the center.

NOTE 5b

The washer is inserted under the REEL DISK.

Be carefull not to lose the washer.

Two washers are inserted under the REEL DISK in some products manufactured earlier, but one washer is inserted in the products manufactured recently and in the future.

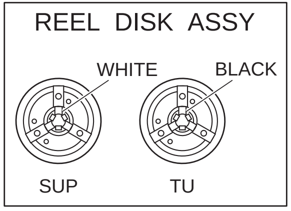
See the parts list, and use the parts written in the parts list.

NOTE 6:

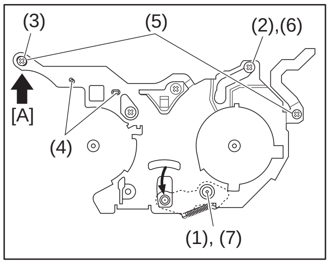
Perform the following steps for mounting.

(1) Align the hole with the pin.
(2) Attach the **[17]** PINCH ROLLER ARM FINAL ASSY by aligning the positions.
(3) Attach the SLIDE DECK ASSY (POINT[A]) by aligning the positions.
(4) Check that the parts below them are located in the correct positions.
(5) Tighten the 2 screws.
(6) Tighten the screw.
(7) Attach the 1 SLIT WASHER parts.

NOTE 4, 5



NOTE 6



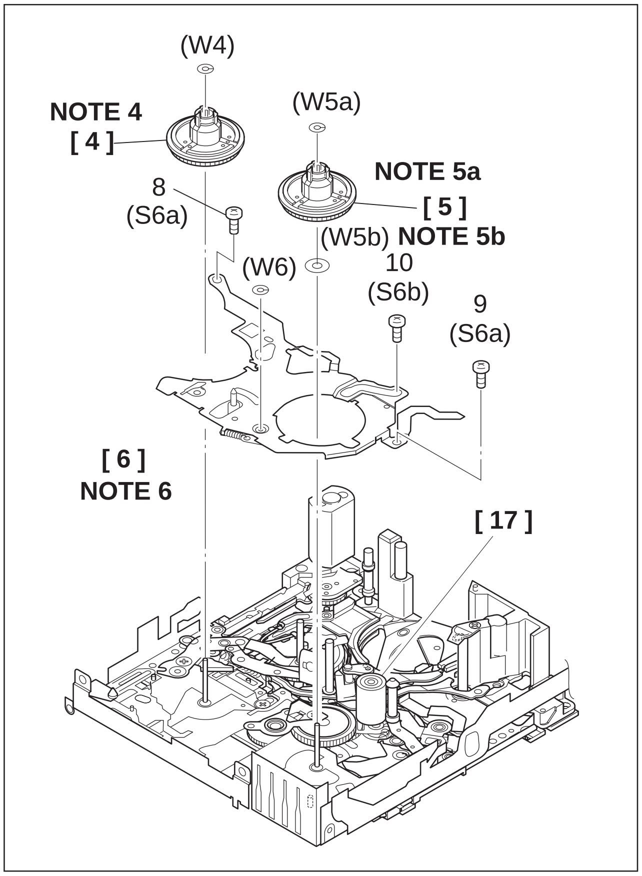


Fig.2-1-16

2.1.5.4 [7] TENSION ARM ASSY
[8] SLANT POLE ARM ASSY
[9] TU ARM ASSY
[10] SWING ARM ASSY

NOTE 7:

When detaching, remove the spring of the **[12]** PAD ARM ASSY in advance.

Pay attention to the attachment position.

NOTE 8:

When mounting the SLANT POLE ARM ASSY, hook the spring onto the lug as in diagram A, and fit the combination onto the SLIDE DECK ASSY. After fitting, hook the spring onto the lug of the SLIDE DECK ASSY as in diagram B.

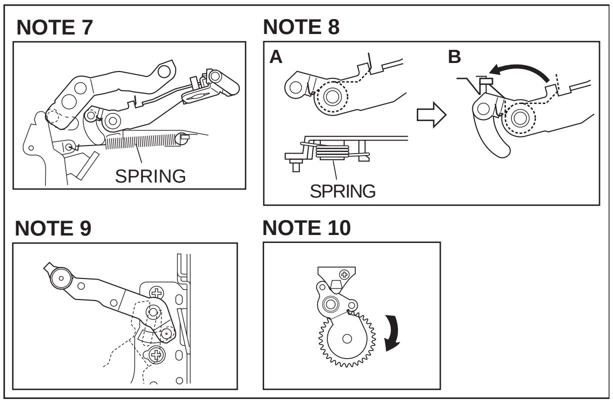
Be careful not to lose the spring.

NOTE 9:

Pay attention to the attachment position.

NOTE 10:

When detaching, remove the screw then remove the SWING ARM ASSY by pulling it up and turning it.


NOTE 7
SPRING
NOTE 8
A
B
SPRING
NOTE 9
NOTE 10

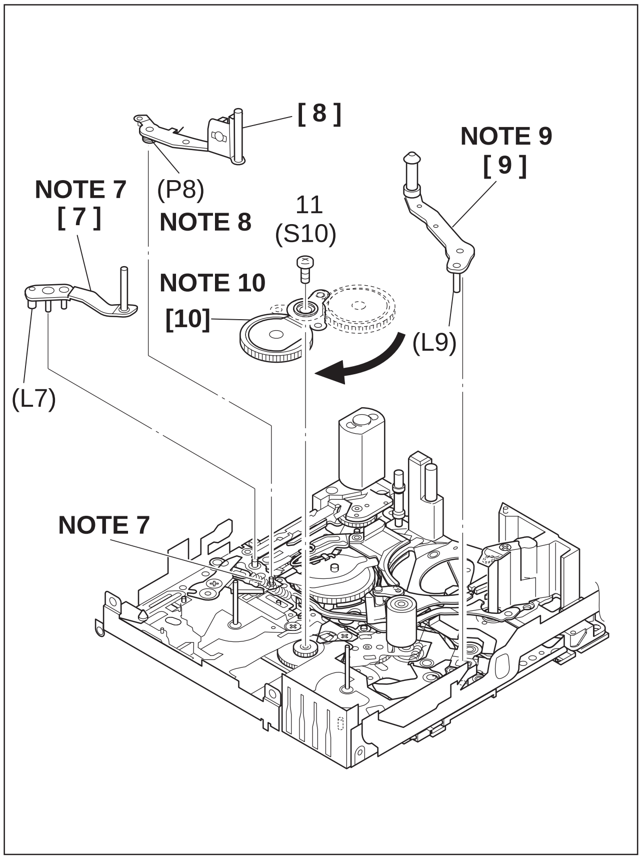

[8]
NOTE 9
[9]
NOTE 7
[7]
(P8)
NOTE 8
11
(S10)
NOTE 10
[10]
(L9)
(L7)
NOTE 7

Fig.2-1-17

2.1.5.5 [11] SLIDE DECK ASSY

NOTE 11a:

Each of the parts on the SLIDE DECK ASSY can be replaced separately.

When detaching the assembly, if there is no need to replace any of its parts, remove the SLIDE DECK ASSY as it is.

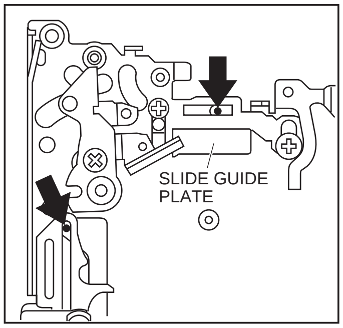
NOTE 11b:

When mounting, pay attention to the positions of the **[22]** SLIDE LEVER 2 ASSY studs and the **[19]** BRAKE CTL LEVER ASSY.

When mounting, position the CONTROL PLATE on the left side.

Pay attention to the position of the SLIDE GUIDE PLATE during mounting.

NOTE 11b


SLIDE GUIDE PLATE

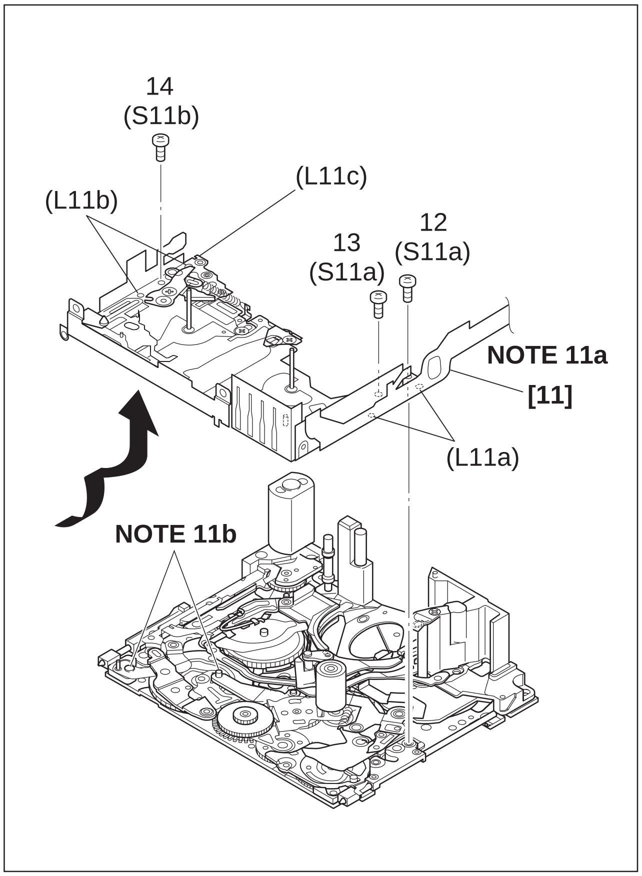

14
(S11b)
(L11c)
(L11b)
12
(S11a)
13
(S11a)
NOTE 11a
[11]
(L11a)
NOTE 11b

Fig.2-1-18

2.1.5.6 [12] PAD ARM ASSY
[13] -
[14] TU BRAKE ASSY

NOTE 12:

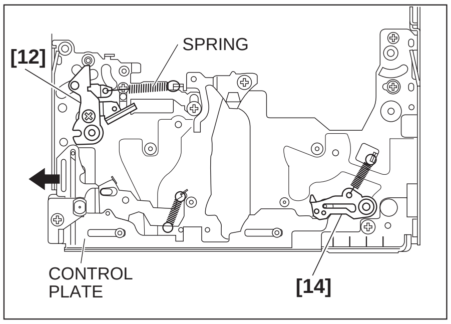
The spring may have already been disengaged when the **[8]** SLANT POLE ARM ASSY was removed.

NOTES 14:

When mounting, pay attention to the correct positioning.

Mount the CONTROL PLATE by moving it fully toward the left side.

NOTE 12,14


[12]
SPRING
CONTROL PLATE
[14]

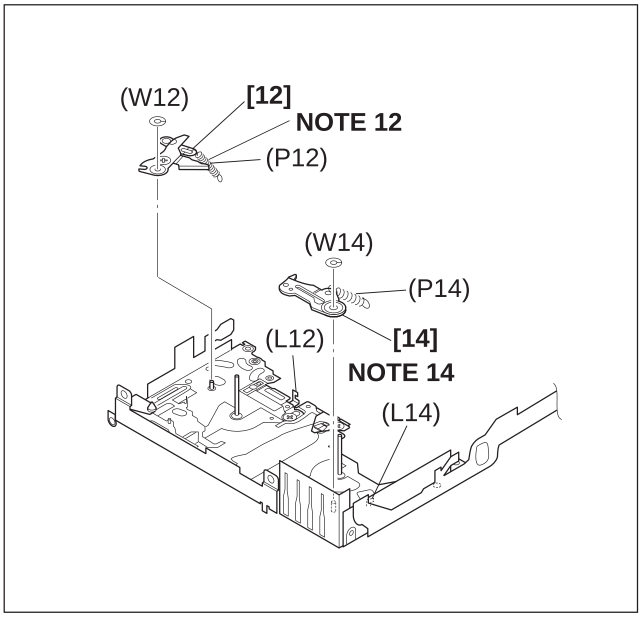

(W12)
[12]
NOTE 12
(P12)
(W14)
(P14)
(L12)
[14]
NOTE 14
(L14)

Fig.2-1-19

2.1.5.7 [15] TENSION CTL LEVER ASSY
[16] CENTER GEAR
[17] PINCH ROLLER ARM FINAL ASSY
[18] TENSION CTL PLATE ASSY
[19] BRAKE CTL LEVER ASSY

NOTES 15/16:

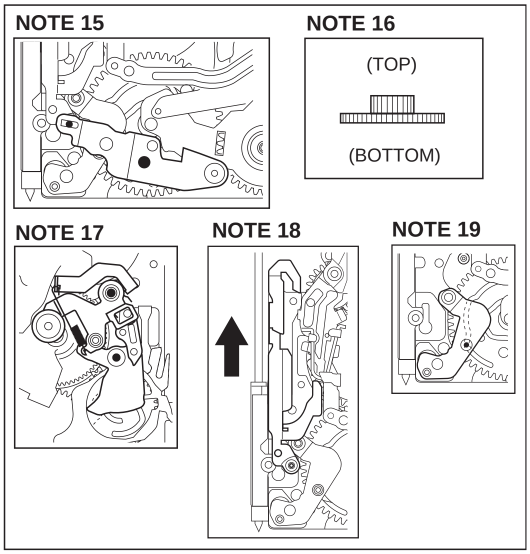
When mounting, pay attention to the correct positioning.

NOTE 17:

Take care against grease attachment during work.

NOTES 18/19:

When mounting, pay attention to the correct positioning.


NOTE 15
NOTE 16
(TOP)
(BOTTOM)
NOTE 17
NOTE 18
NOTE 19

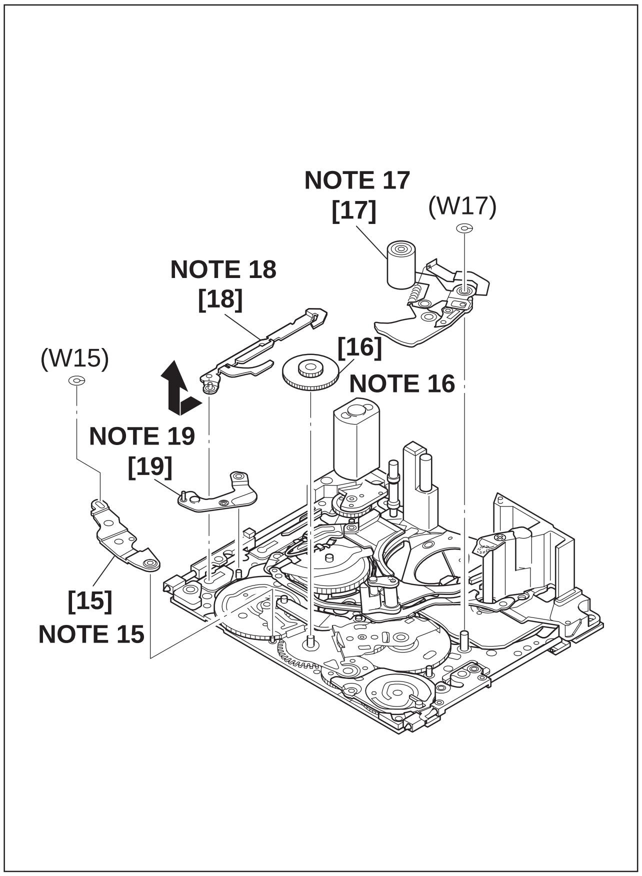

NOTE 17
[17]
(W17)
NOTE 18
[18]
[16]
(W15)
NOTE 16
NOTE 19
[19]
[15]
NOTE 15

Fig.2-1-20

2.1.5.8 [20] MOTOR BRACKET ASSY
[21] GUIDE RAIL ASSY
[22] SLIDE LEVER 2 ASSY
[23] LOADING PLATE ASSY
[24] MODE GEAR
[25] EJECT LEVER

NOTE 20:

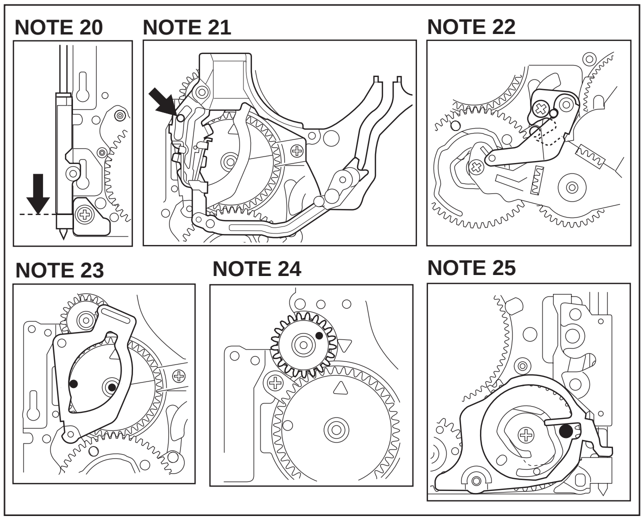
When mounting, pay attention to the positioning of the sliding parts.

NOTE 21:

When mounting, take care that no part is allowed to float or rattle.

NOTES 22/23/24/25:

When mounting, pay attention to the correct positioning.


NOTE 20
NOTE 21
NOTE 22
NOTE 23
NOTE 24
NOTE 25

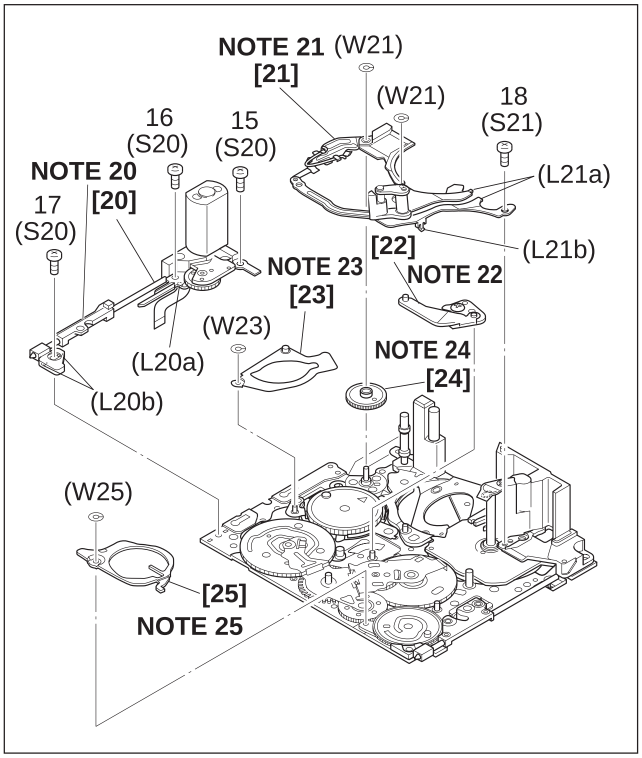

NOTE 21
(W21)
[21]
(W21)
16
(S20)
15
(S20)
18
(S21)
NOTE 20
[20]
(L21a)
17
(S20)
[22]
(L21b)
NOTE 23
NOTE 22
[23]
(W23)
NOTE 24
(L20a)
[24]
(L20b)
(W25)
[25]
NOTE 25

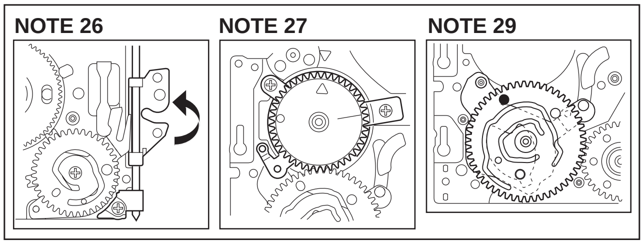
Fig.2-1-21

2.1.5.9 [26] BASE R ASSY
[27] ROTARY ENCODER
[28] GEAR COVER ASSY
[29] MAIN CAM ASSY

NOTE 26:
When mounting, fold the sliding part to the inner side.

NOTE 27:
When mounting, pay attention to the correct positioning and the FPC layout.

NOTE 29:
When mounting, pay attention to the correct positioning.


NOTE 26
NOTE 27
NOTE 29

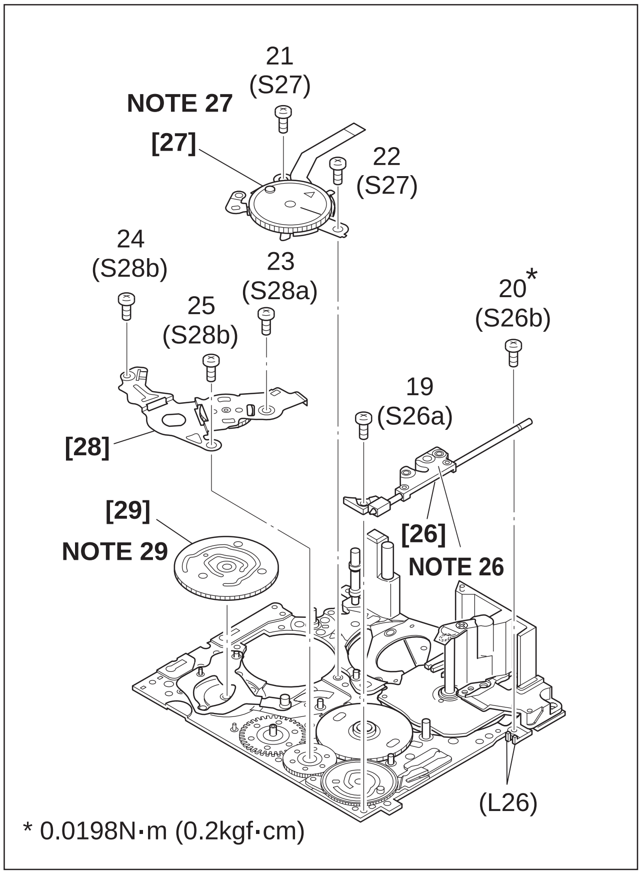

21
(S27)
NOTE 27
[27]
22
(S27)
24
(S28b)
23
(S28a)
25
(S28b)
20*
(S26b)
19
(S26a)
[28]
[29]
NOTE 29
[26]
NOTE 26
(L26)
* 0.0198N·m (0.2kgf·cm)

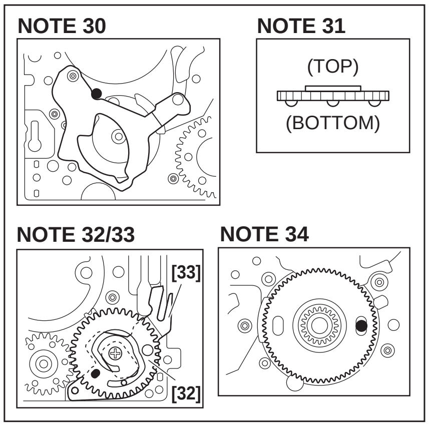
Fig.2-1-22

2.1.5.10 [30] SLIDE ARM ASSY
[31] CONNECT GEAR 2
[32] SUB CAM ASSY
[33] CONTROL ARM ASSY
[34] REEL GEAR 1

NOTE 30:
When mounting, pay attention to the correct positioning.

NOTE 31:
When mounting, pay attention to the position of the front and back.

NOTES 32/33/34:
When mounting, pay attention to the correct positioning.


NOTE 30
NOTE 31
(TOP)
(BOTTOM)
NOTE 32/33
[33]
[32]
NOTE 34

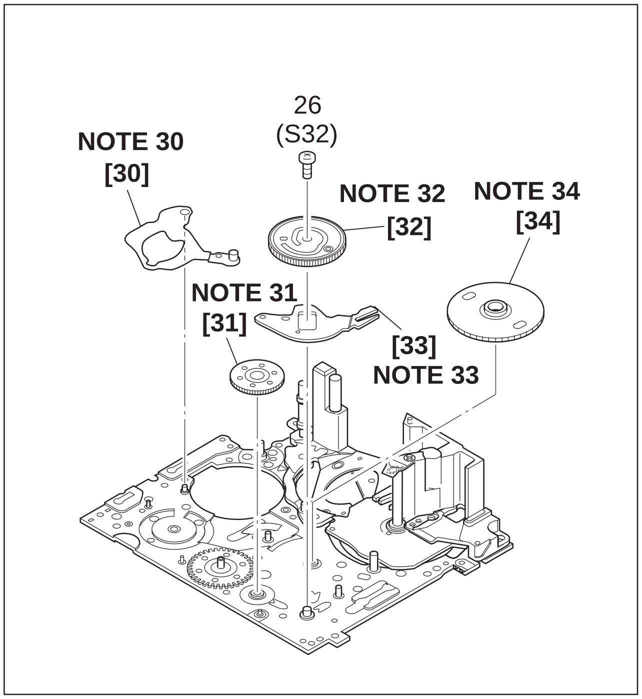

26
(S32)
NOTE 30
[30]
NOTE 32
[32]
NOTE 34
[34]
NOTE 31
[31]
[33]
NOTE 33

Fig.2-1-23

2.1.5.11 [35] DRUM BASE ASSY
[36] CAPSTAN MOTOR
[37] MAIN DECK ASSY

NOTES 35a/36:

Since [36]CAPSTAN MOTOR is attached to [35]DRUM BASE ASSY, remove [36]CAPSTAN MOTOR together with [35]DRUM BASE ASSY when removing [36]CAPSTAN MOTOR.

[36]CAPSTAN MOTOR should not be separated from [35]DRUM BASE ASSY except when replacing them.

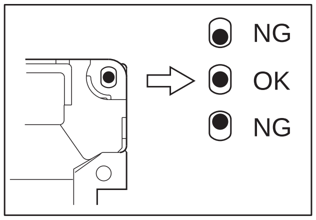
NOTE 35b:

It is very important to attach [35]DRUM BASE ASSY to the proper position.

Especially, improper engagement of [36]CAPSTAN MOTOR with [34]REEL GEAR 1 causes operational defection or abnormal sound. Therefore, confirm the attachment position before disassembly procedure.

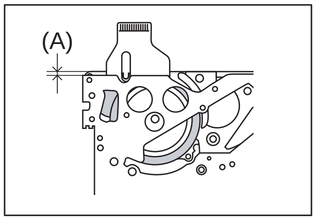
See the following figure as for the proper attachment position.

NOTE 35b



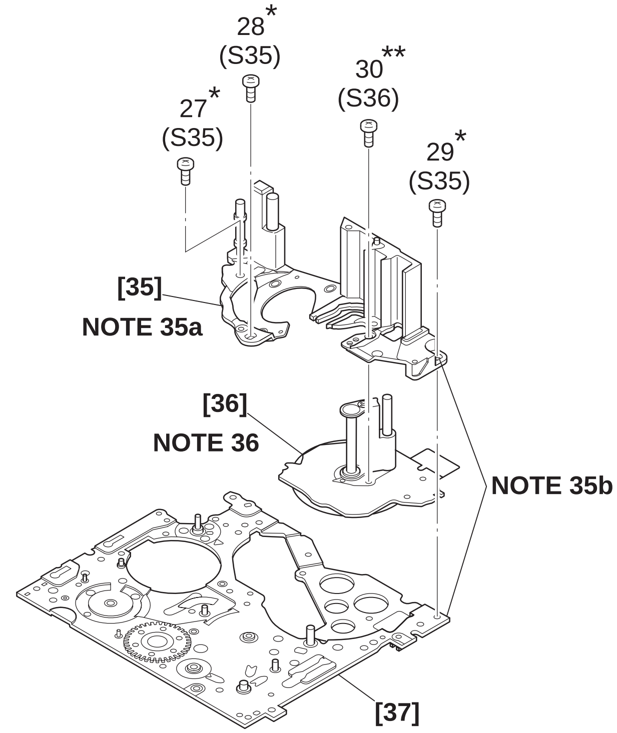
When [35]DRUM BASE ASSY is properly attached, the screw hole tends to be located at the center of the oval.

When the screw hole is located far from the center of the oval, operational defection or abnormal sound may occur.



Before removing [35]DRUM BASE ASSY, confirm the position of [35]DRUM BASE ASSY by seeing the length (A), as shown in the left figure.

When reattaching [35]DRUM BASE ASSY, confirm the position to reattach [35]DRUM BASE ASSY by seeing the length (A). Be sure to reattach [35]DRUM BASE ASSY to the same position as it has been before the removing procedure.



* 0.078 N·m (0.8 kgf·cm)
** 0.039 N·m (0.4 kgf·cm)

Fig.2-1-24

2.1.6 CHECKUP AND ADJUSTMENT OF MECHANISM PHASE

[24]MODE GEAR

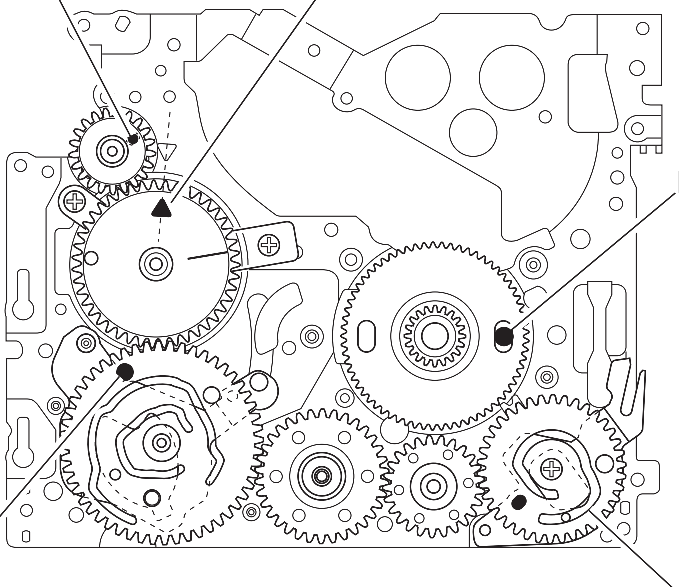
Align the MODE GEAR with the Main Deck Assembly hole.

Note:
The MODE GEAR may be displaced during the mechanism operation, however it can be checked from the rear and realigned during manual assembly.

[27]ROTARY ENCODER

Mount the ROTARY ENCODER by aligning its mark (△) and the mark (▽) of the Main Deck Assembly.

Note:
Be careful when handling the FPC during mounting.



[34]REEL GEAR 1

Align the REEL GEAR 1 with the Main Deck Assembly hole.

Note:
The REEL GEAR 1 may be displaced during mechanism operation, however this can be checked from the rear and realigned during manual assembly.

[29]MAIN CAM ASSY/[30]SLIDE ARM ASSY

When mounting the SLIDE ARM ASSY align it with the Main Deck Assembly and MAIN CAM ASSY holes.

Note:
During the mounting procedure, make sure that the[32] SUB CAM ASSY is in the correct mounting position.

[32]SUB CAM ASSY/[33] CONTROL ARM ASSY

Mount the SUB CAM ASSY hole to align with the CONTROL ARM ASSY and Main Deck Assembly holes and then tighten them all together with a screw.

Note:
When mounting it, make sure that the[29]MAIN CAM ASSY is in the correct mounting position.

Fig.2-1-25

2.1.7 MECHANISM ADJUSTMENTS

2.1.7.1 Adjustment of the slide guide plate

Use Fig. 2-1-26 as the reference unless otherwise specified.

(1) Set the PLAY mode. See Fig. 2-1-8.

(2) Loosen the screws (**A**, **B**).

(3) With the Main Deck and Slide Deck Assemblies pushed into the unit, tighten the screws (**A**, **B**) while applying pressure to the stud (shaft) on the Slide Guide plate.
The pressure applied should be enough to enable utilization of the rebounding force of the springs.
The tightening torque should be 0.069 N•m (0.7 kgf•cm).

(4) Check the operation.
Repeat unloading and loading several times and make sure that these operations can be performed smoothly without producing rattles.

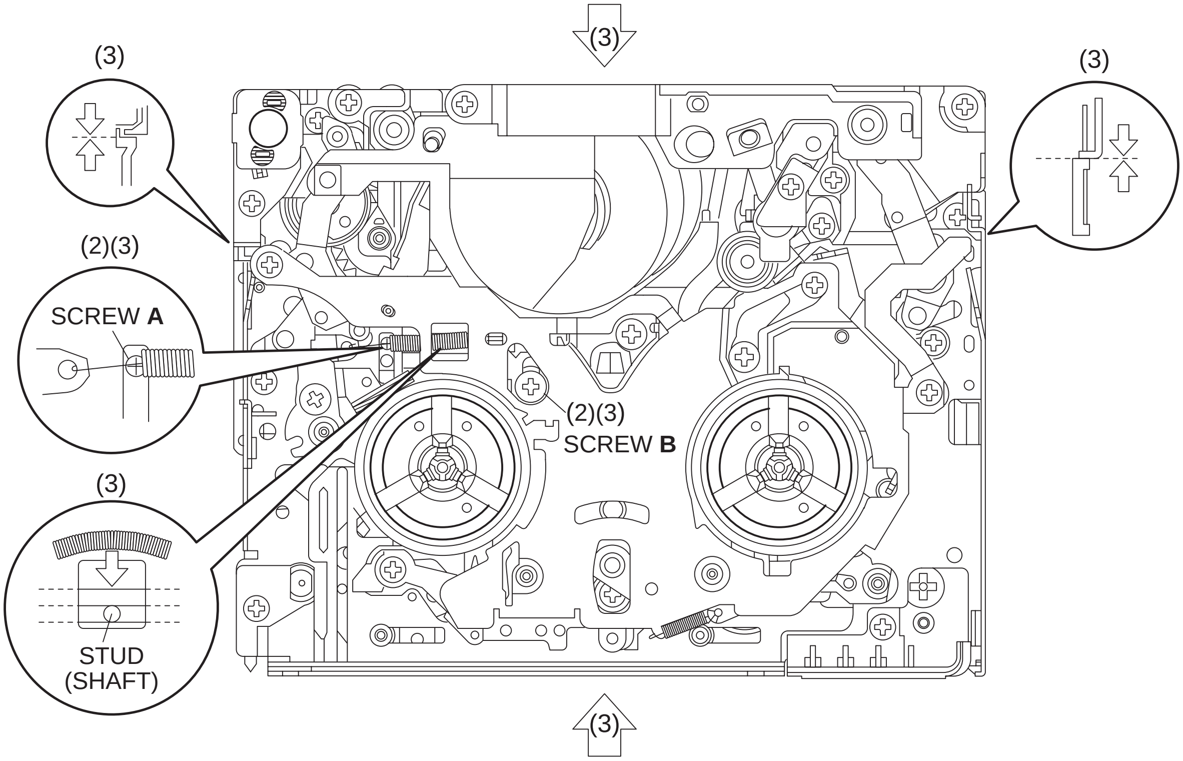


Fig.2-1-26

2.1.7.2 Adjustment of the Tension Arm and Pad Arm Assemblies

Use Fig. 2-1-27 as the reference unless otherwise specified.

(1) Set the PLAY mode.
See Fig. 2-1-8.

(2) Loosen the screw **A**.

(3) With the take-up side at the bottom, align the extreme end of the Tension Arm Assembly with the crossed grooves on the screw **B** that retains the Loading Motor Assembly and then tighten the screw **A**.
The tightening torque should be 0.069 N•m (0.7 kgf•cm).

(4) Check the operation.
Repeat unloading and loading several times and make sure that the Tension Arm Assembly is located within the normal range.

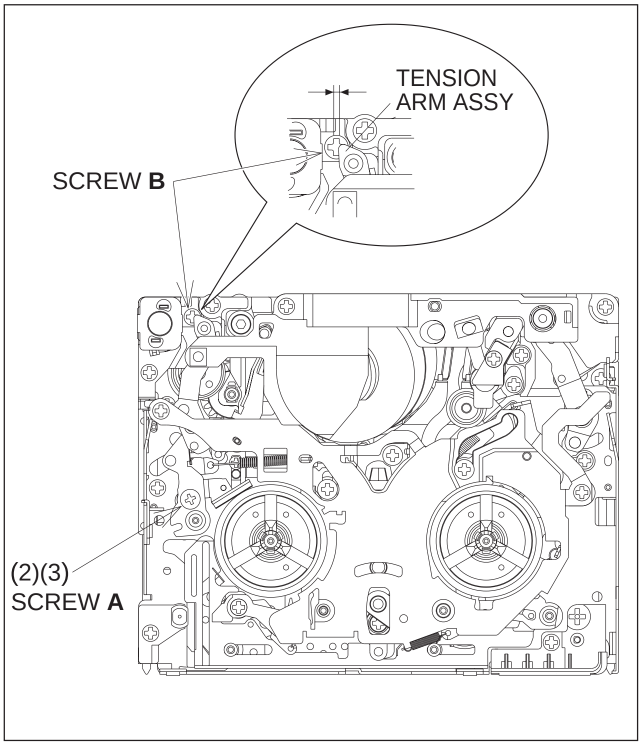


Fig.2-1-27

2.1.7.3 Adjustment of the Slide Lever 2

Use Fig. 2-1-28 as the reference unless otherwise specified.

(1) Set the C IN mode.
See Fig. 2-1-4.

(2) Loosen the screw **A**.

(3) Set the Main Deck and Slide Deck Assemblies apart so that they do not rattle, then tighten the screw **A** by screwing it fully toward the Drum Assembly.
The tightening torque should be 0.069 N•m (0.7 kgf•cm).

(4) Check the operation.
Repeat unloading and loading several times and make sure that these operations can be performed smoothly without producing rattles.

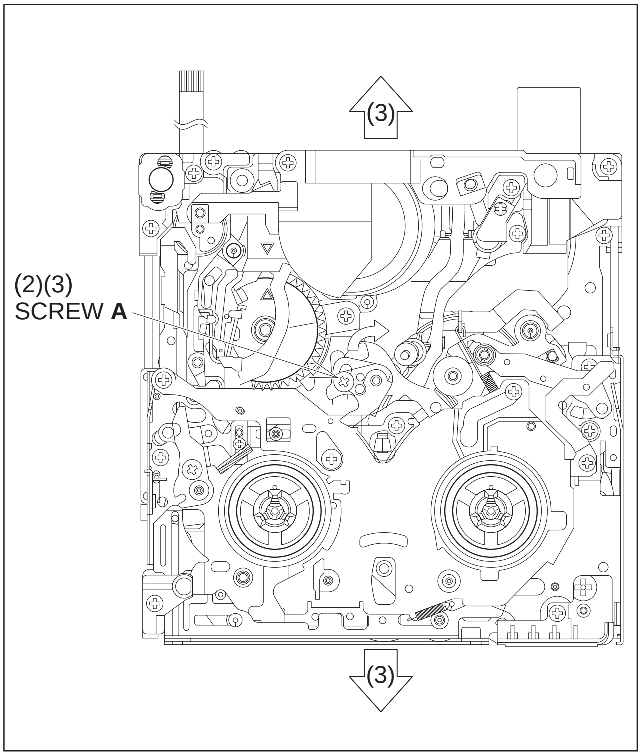


Fig.2-1-28

2.1.8 SERVICE NOTE

Use the following chart to manage mechanism parts that are removed for disassembling the mechanism.

Fig.2-1-14

[1] CASSETTE HOUSING ASSY

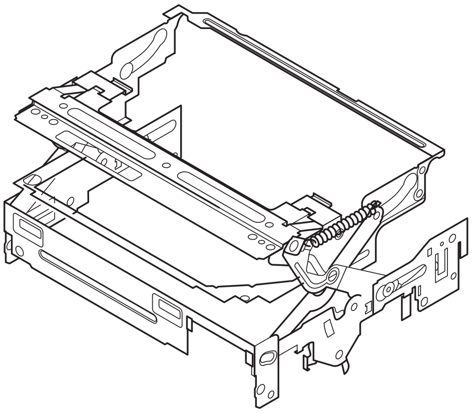


Fig.2-1-15

[2] UPPER BASE ASSY

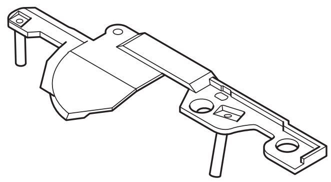


Fig.2-1-15

[3] DRUM ASSY

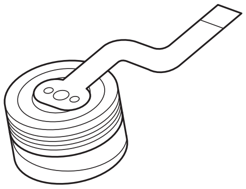
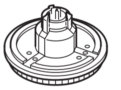
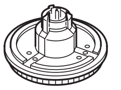


Fig.2-1-16

[4] REEL DISK ASSY(SUP)



[5] REEL DISK ASSY(TU)



[6] REEL COVER ASSY

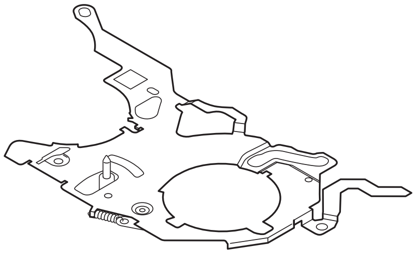
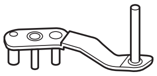
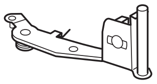


Fig.2-1-17

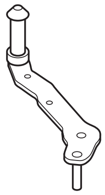
[7] TENSION ARM ASSY



[8] SLANT POLE ARM ASSY



[9] TU ARM ASSY



[10] SWING ARM ASSY

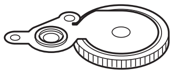


Fig.2-1-18

[11] SLIDE DECK ASSY

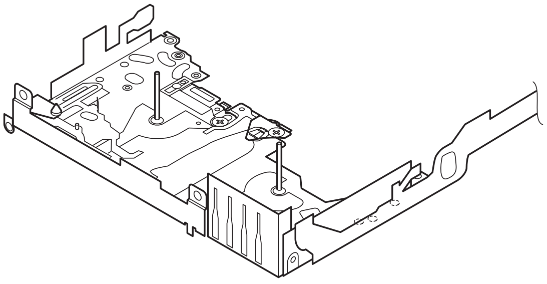
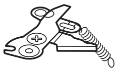


Fig.2-1-19

[12] PAD ARM ASSY



[13]

—

[14] TU BRAKE ASSY

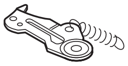
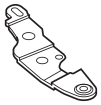


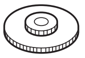
Fig.2-1-29

Fig.2-1-20

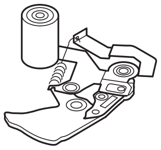
[15] TENSION CTL LEVER ASSY



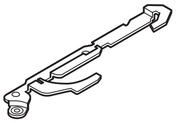
[16] CENTER GEAR



[17] PINCH ROLLER ARM F. ASSY



[18] TENSION CTL PLATE ASSY



[19] BRAKE CTL LEVER ASSY

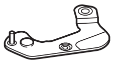
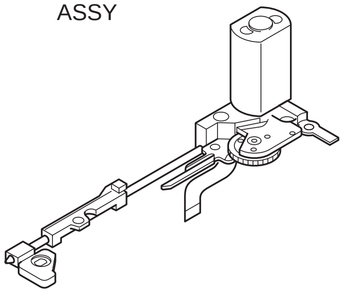
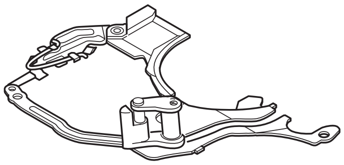


Fig.2-1-21

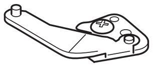
[20] MOTOR BRACKET ASSY



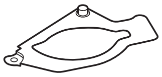
[21] GUIDE RAIL ASSY



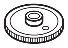
[22] SLIDE LEVER 2 ASSY



[23] LOADING PLATE ASSY



[24] MODE GEAR



[25] EJECT LEVER

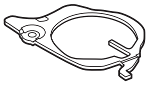
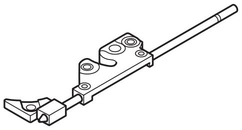
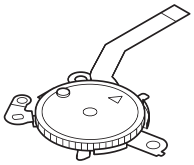


Fig.2-1-22

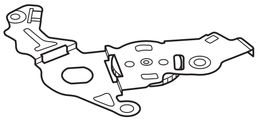
[26] BASE R ASSY



[27] ROTARY ENCODER



[28] GEAR COVER ASSY



[29] MAIN CAM ASSY

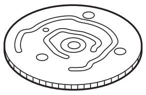
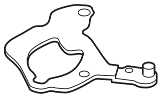
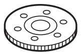


Fig.2-1-23

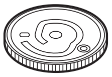
[30] SLIDE ARM ASSY



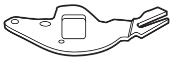
[31] CONNECT GEAR 2



[32] SUB CAM ASSY



[33] CONTROL ARM ASSY



[34] REEL GEAR 1

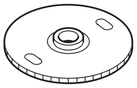
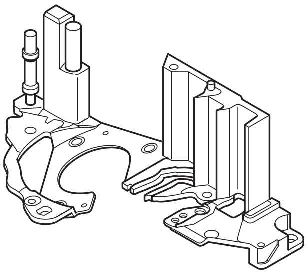
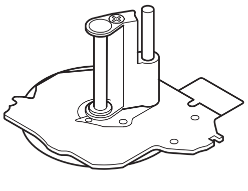


Fig.2-1-24

[35] DRUM BASE ASSY



[36] CAPSTAN MOTOR



[37] MAIN DECK ASSY

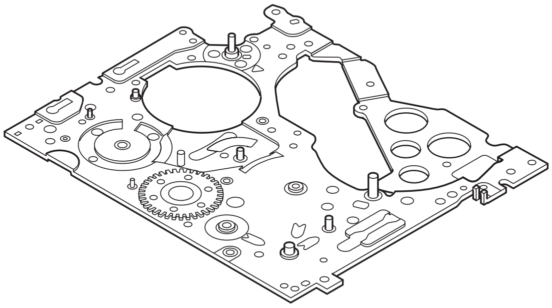


Fig.2-1-30

2.1.9 SERVICE NOTE

Use the following chart to manage screws.

Symbol No.	[1]			[2]	[3]			[6]			[10]	[11]			[20]			[21]	[22]	
Removing order of screw	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Place to stick screw																				
Reference drawing (Fig. No.2-1-**)	14			15				16			17	18			21				22	
Screw tightening torque	I			II																III

Symbol No.	[27]		[28]			[32]	[35]			[36]
Removing order of screw	21	22	23	24	25	26	27	28	29	30
Place to stick screw										
Reference drawing (Fig. No.2-1-**)	22					23	24			
Screw tightening torque	II						IV			V

Fig.2-1-31

<NOTE>

·Pay careful attention to tightening torque for each screw.

I : 0.069N·m(0.7kgf·cm)

II : 0.055N·m(0.56kgf·cm)

III : 0.0198N·m(0.2kgf·cm)

IV : 0.078N·m(0.8kgf·cm)

V : 0.039N·m(0.4kgf·cm)

2.1.10 REMARKS

2.1.10.1 Cleaning

(1) For cleaning of the upper drum (particularly video heads), use fine-woven cotton cloth with alcohol soaks through. Do not move the cloth but turn the upper drum counterclockwise.

NOTE:
Make sure not to move the cloth in the vertical direction to the video head, since it may cause damage of the video heads.

(2) For cleaning of parts of the tape transport system except the upper drum, use fine-woven cotton cloth or cotton swab soaked alcohol.

(3) After cleaning, confirm that the cleaned parts are completely dry before loading the deck with cassette tape.

2.1.10.2 Applying oil and grease

(1) Periodical oiling and greasing are not required but should be done to new parts when replacing. If oil and grease on the other parts of the other party are old and dirty, wipe them clean and apply new oil or grease.

(2) For parts and points to apply oil and grease, refer to the exploded view of the 3.1 DVC MECHANISM ASSEMBLY. Fig.2-1-32 specifies oil and grease to be used.

(3) When oiling, clean the objective parts with alcohol first and apply one or two drop(s) of oil. Too much oiling causes rotary parts to slip because of oil leakage.

Classification	Part No.	Symbol in drawing
Grease	KYODO-SH-JB	AA
Oil	YTU94027	BB
Grease (HANARL)	RX-410R	CC

specifies oil and grease to be used

Fig.2-1-32

2.2 VHS-C MECHANISM

2.2.1 Precautions

(1) When fastening parts, pay careful attention to the tightening torque of each screw. Unless otherwise specified, tighten a screw with the torque of 0.216 N•m (2.2 kgf•cm). Torque setting value of torque driver is limited. At the values over the maximum torque setting value, fasten a screw manually not to damage the screw thread.
(2) Be sure to disconnect the set from the power supply before fastening and soldering parts.
(3) When disconnecting/connecting wires, be careful not to get them and their connectors damaged.
(4) When replacing parts, be very careful neither to damage other parts nor to fit wrong parts by mistake.

Example

STEP/LOC. No.	PART NAME		FIG.	REMOVAL	INSTALLATION
				POINT	ADJUSTMENT CONDITION NOTE
[1]	ROLLER BASE ASSEMBLY	T	M1	(S1)	–
[2]	TENSION ARM ASSEMBLY	T	M1	(P1), (W1a)	–
[3]	REEL DISC (SUP)	T	M1	(W1a), (W1b)	_
↑ *1	↑ *2	↑ *3	↑ *4	↑ *5	↑ *6

2.2.2 How to read the disassembly and assembly

*1 Order of steps in Procedure
When reassembling, perform the step(s) in the reverse order. These numbers are also used as the identification (location) No. of parts Figures.
*2 Part to Name be removed or installed.
*3 Location of part.

T = The Upper side
B = The Lower side

*4 Fig. No. showing Procedure or Part Location.
M = Mechanism
*5 Identification of part to be removed, unhooked, unlocked, released, unplugged, unclamped or unsoldered.

P = Spring
W = Washer
S = Screw
* = Unhook, unlock, release, unplug or unsolder.

Example

- Remove (W1)=Washer W1.
- Remove the solder at (SD1)=Point SD1.
- Disconnect A = Connector A.

*6 Adjustment information for installation.
(+) = Refer to Exploded Views for Lubrication information.

2.2.3 DISASSEMBLY/ASSEMBLY PROCEDRURE TABLE

This procedure starts with the condition that the cabinet parts and deck parts. Also, all the following procedures for adjustment and parts replacement should be performed in STOP mode. When reassembling, perform the step(s) in the reverse order.

STEP/LOC. No.	PART NAME		FIG.	REMOVAL	INSTALLATION
				POINT	ADJUSTMENT CONDITION NOTE
[1]	ROLLER BASE ASSY	T	M1	(1)	–
[2]	TENSION ARM ASSY	T	M1	(P1), (W1a)	–
[3]	REEL DISC	T	M1	(W1a), (W1b)	–
[4]	SLANT ARM ASSY	T	M1	(W1a)	–
[5]	CANCEL LEVER ASSY	T	M2	(W2)	–
[6]	EJECT LEVER ASSY	T	M2	(W2)	–
[7]	CASSETTE GUIDE (LEFT)	T	M2	(2)	–
[8]	SUPPLY CLUTCH ASSY	T	M2	(W2)	–
[9]	WHEEL GEAR	T	M2	(W2)	See, Adjustment procedure for Section 2.2.5
[10]	ROTARY ENCODER	B	M3	4(S3a)	The function of this part varies according to the ASSY (VHS/SVHS) which this part is rporated in. (Refer to fig. 2-2-6)
[11]	TIMING BELT	B	M3	–	–
[12]	CENTER PULLEY UNIT	T/B	M3	2(S3a)	–
[13]	CASSETTE GUIDE (R) ASSY	T	M3	(S3b), (P3)	(Only use SVHS model)
[14]	TAKE UP GEAR	T	M3	(W3a)	–
[15]	BRAKE SUB GEAR	T	M3	(W3a)	–
[16]	PINCH ROLLER ARM ASSY	T	M3	(W3b)	–
[17]	TAKE UP GUIDE ARM ASSY	T	M3	(W3a)	–
[18]	LINK ARM ASSY	T	M4	(W4)	–
[19]	LED GUIDE	T	M4	(S4a)	–
[20]	A/C HEAD UNIT	T	M4	2(S4b)	–
[21]	SLANT POLE BASE ASSY	T	M5	(S5a)	–
[22]	CAPSTAN MOTOR	T	M5	3(S5a)	–
[23]	MOTOR BASE	T	M5	2(S5b), (S5c)	–
[24]	BRUSH	B	M6	(S6a)	–
[25]	DRUM FINAL ASSY	T/B	M6	2(S6b), 2(S6c) *CATCHER	–
[26]	GUIDE RAIL	T	M6	7(S6d), 8(S6d)	(Refer to part list.)
[27]	POLE BASE (S)ASSY	T	M6	–	–
[28]	POLE BASE (T)ASSY	T	M6	–	–
[29]	COVER PLATE	T	M7	–	–
[30]	DRIVE LEVER ASSY	T	M7	–	–
[31]	MOTOR BRACKET ASSY	T	M7	3(S7)	–
[32]	CONTROL CAM	T	M8	(W8a)	See, Adjustment procedure for Section 2.2.5
[33]	LINK LEVER	T	M8	–	See, Adjustment procedure for Section 2.2.5
[34]	MIDDLE GEAR	T	M8	–	–
[35]	LOADING GEAR(T) ASSY	T	M8	(W8b)	See, Adjustment procedure for Section 2.2.5
[36]	LOADING GEAR(S) ASSY	T	M8	(W8b)	–
[37]	LOADING RING ASSY	T	M8	4(S8)	See, Adjustment procedure for Section 2.2.5

Fig.2-2-1

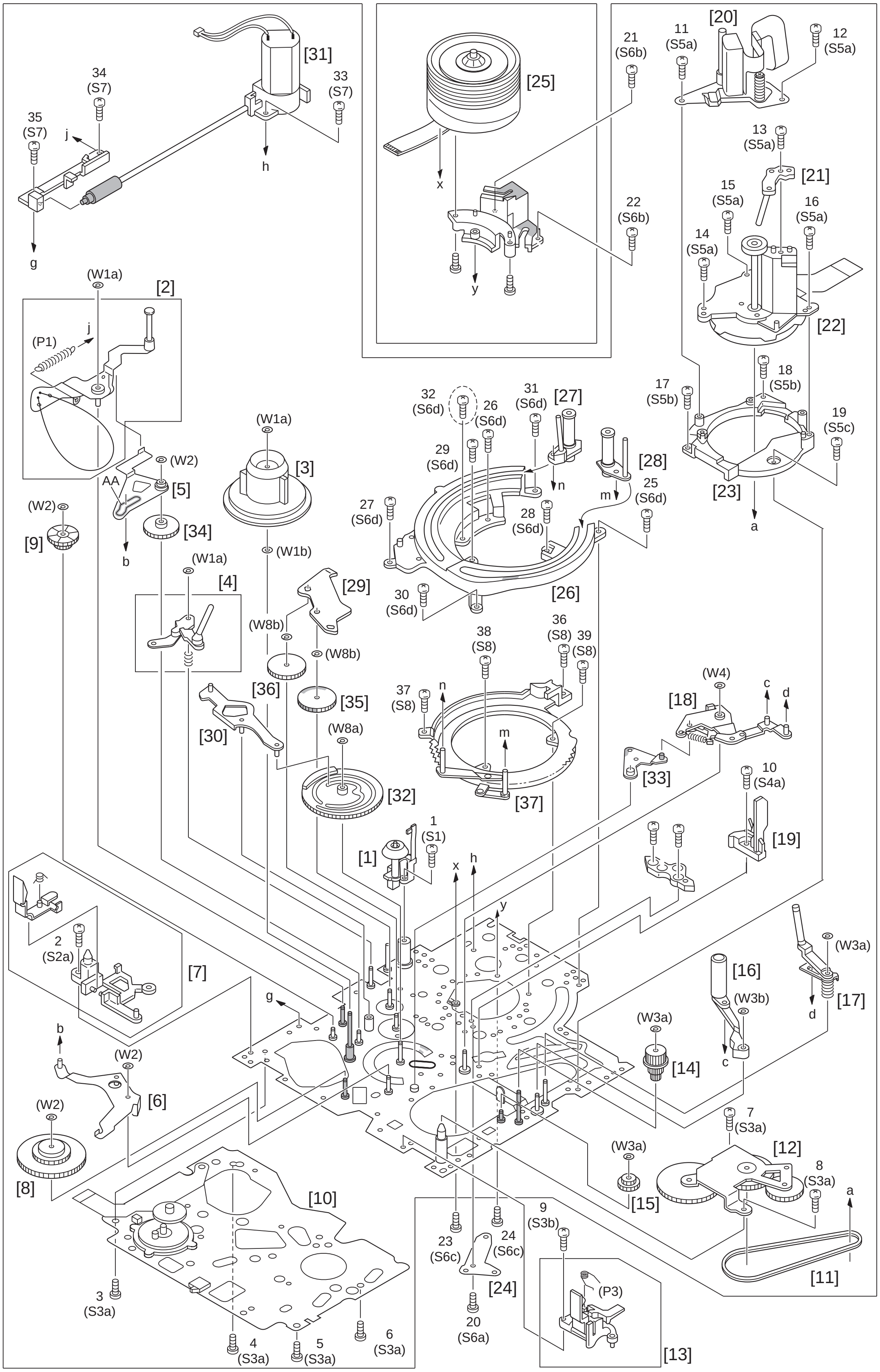
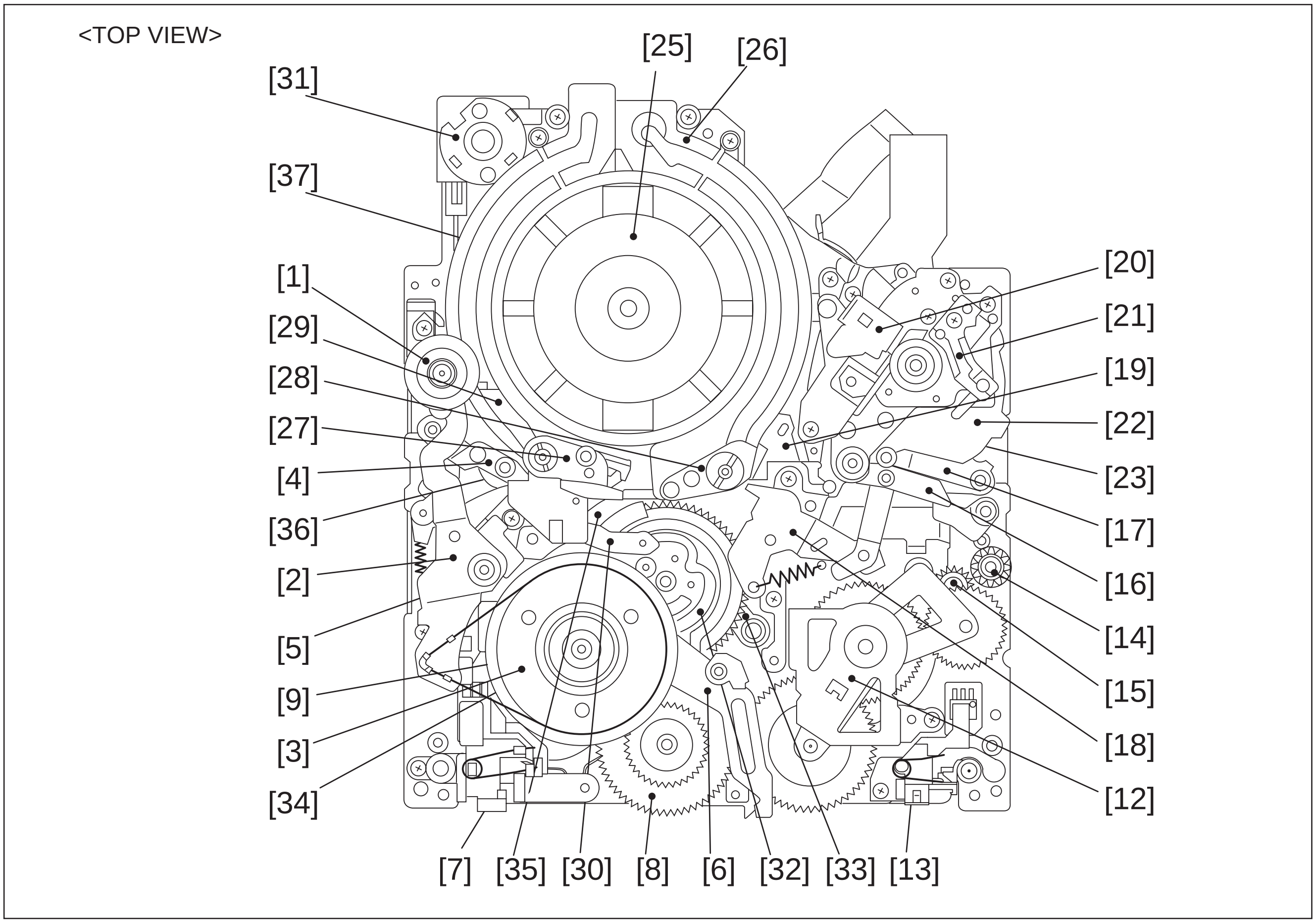
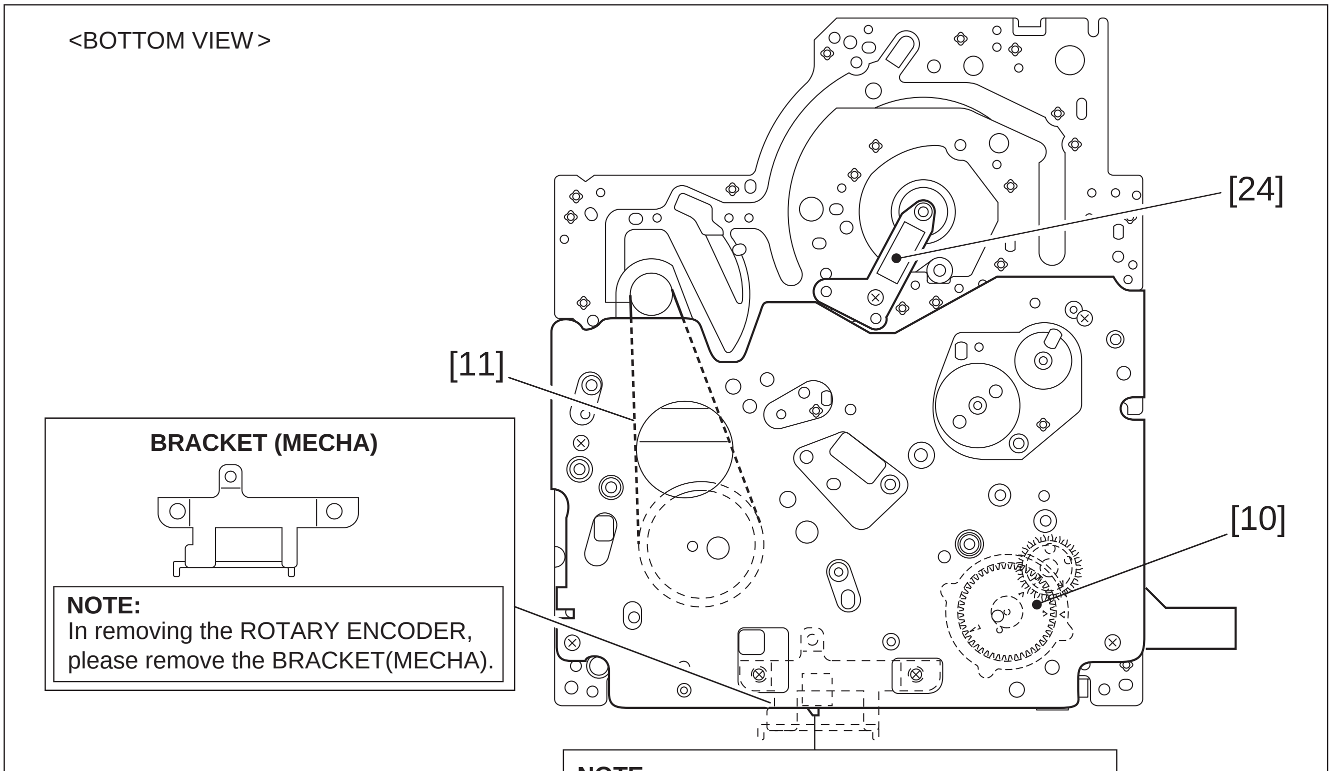

[31]
34
(S7)
33
(S7)
35
(S7)
j
h
g
[25]
x
y
21
(S6b)
22
(S6b)
[20]
11
(S5a)
12
(S5a)
13
(S5a)
[21]
15
(S5a)
16
(S5a)
14
(S5a)
[22]
(W1a)
[2]
(P1)
j
(W2)
AA
[5]
(W2)
[9]
b
[34]
(W1a)
[3]
(W1b)
(W1a)
[4]
[29]
(W8b)
(W8b)
[36]
[35]
[30]
(W8a)
[32]
32
(S6d)
26
(S6d)
31
(S6d)
[27]
29
(S6d)
n
[28]
m
25
(S6d)
27
(S6d)
28
(S6d)
[26]
30
(S6d)
17
(S5b)
18
(S5b)
19
(S5c)
[23]
a
38
(S8)
36
(S8)
39
(S8)
37
(S8)
n
m
[37]
(W4)
c
d
[18]
[33]
10
(S4a)
[19]
1
(S1)
[1]
x
h
y
2
(S2a)
[7]
g
b
(W2)
[6]
(W2)
[8]
[10]
3
(S3a)
4
(S3a)
5
(S3a)
6
(S3a)
[16]
(W3a)
(W3b)
[17]
d
(W3a)
[14]
c
7
(S3a)
[12]
8
(S3a)
a
(W3a)
[15]
23
(S6c)
24
(S6c)
9
(S3b)
[24]
20
(S6a)
(P3)
[13]
[11]

Fig.2-2-2



<TOP VIEW>
[25]
[26]
[31]
[37]
[1]
[29]
[28]
[27]
[4]
[36]
[2]
[5]
[9]
[3]
[34]
[20]
[21]
[19]
[22]
[23]
[17]
[16]
[14]
[15]
[18]
[12]
[7]
[35]
[30]
[8]
[6]
[32]
[33]
[13]

Fig.2-2-3



<BOTTOM VIEW >
[24]
[11]
[10]
BRACKET (MECHA)

NOTE:
In removing the ROTARY ENCODER, please remove the BRACKET(MECHA).

NOTE:
When reinstalling the cassette housing to the set, pay careful attention to the switch not to damage it.

Fig.2-2-4

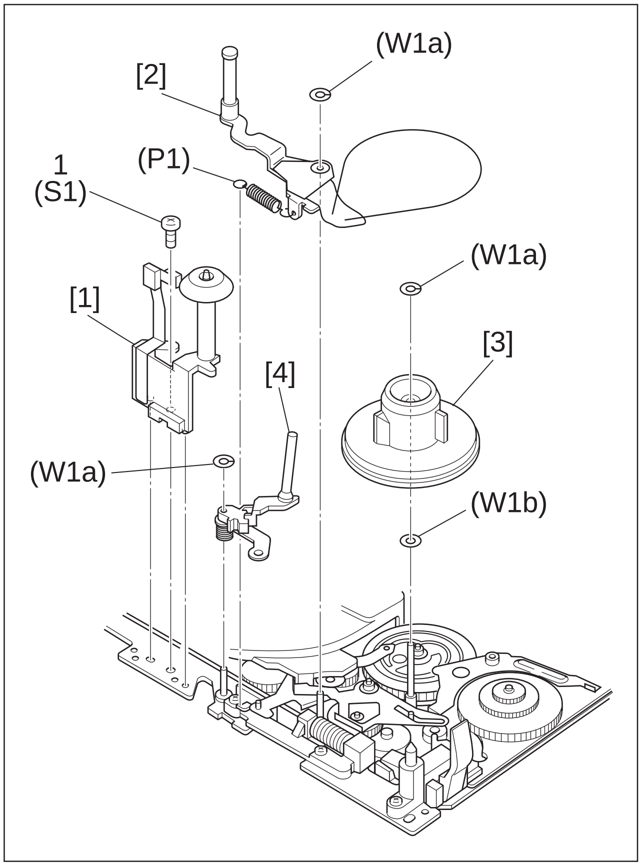

(W1a)
[2]
1
(S1)
(P1)
(W1a)
[1]
[3]
[4]
(W1a)
(W1b)

Fig.M1

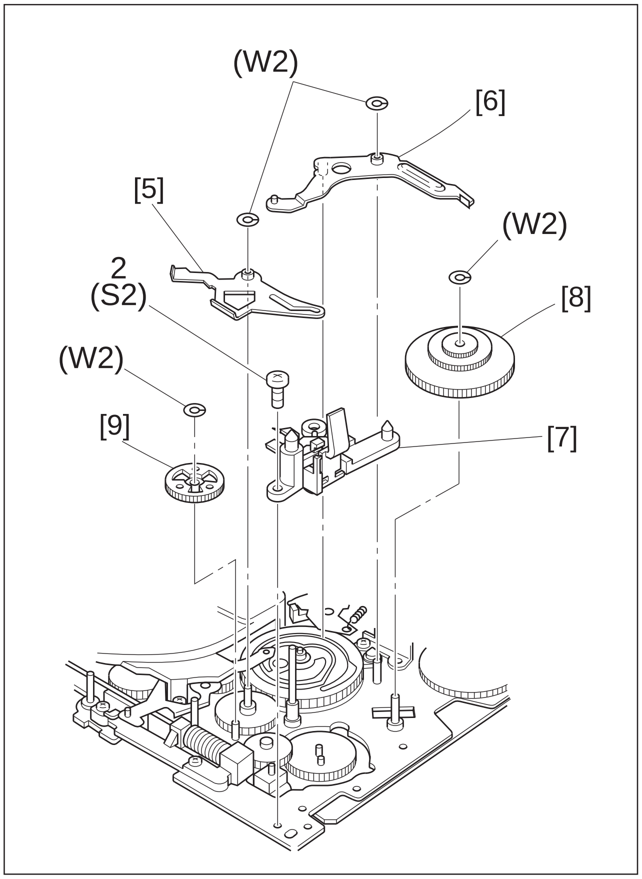

(W2)
[6]
[5]
(W2)
2
(S2)
[8]
(W2)
[9]
[7]

Fig.M2

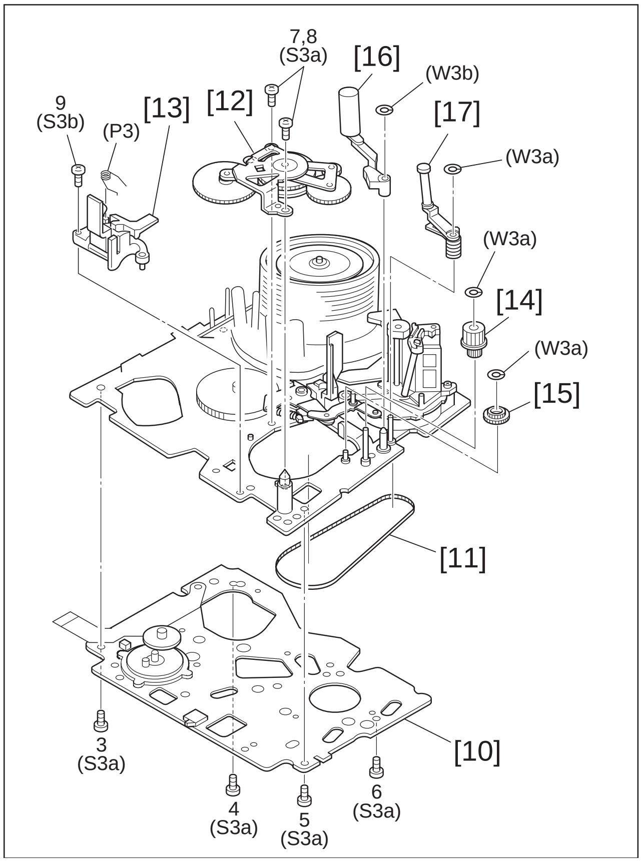

7,8
(S3a)
[16]
9
(S3b)
(P3)
[13]
[12]
(W3b)
[17]
(W3a)
(W3a)
[14]
(W3a)
[15]
[11]
3
(S3a)
4
(S3a)
5
(S3a)
6
(S3a)
[10]

Fig.M3

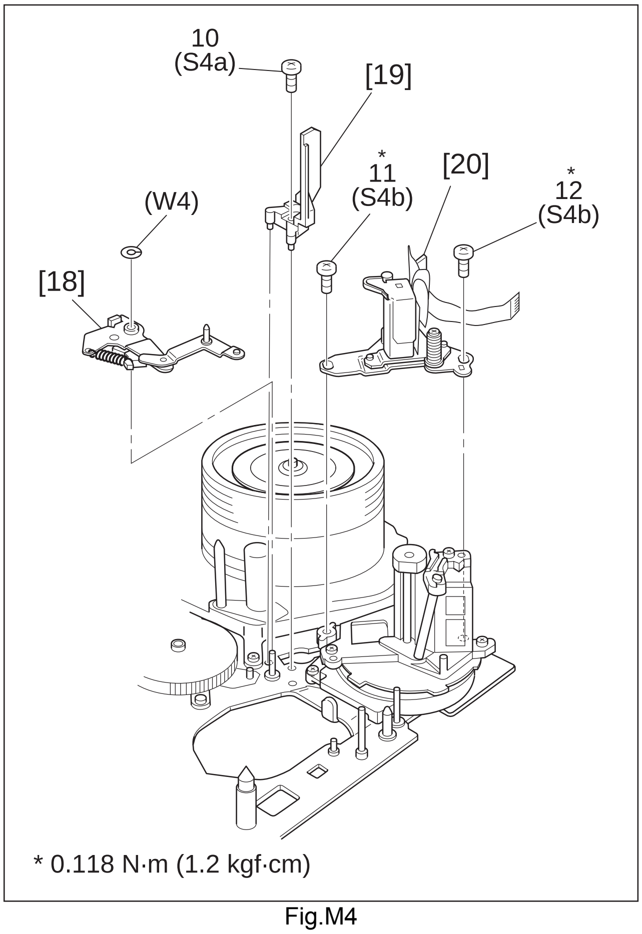
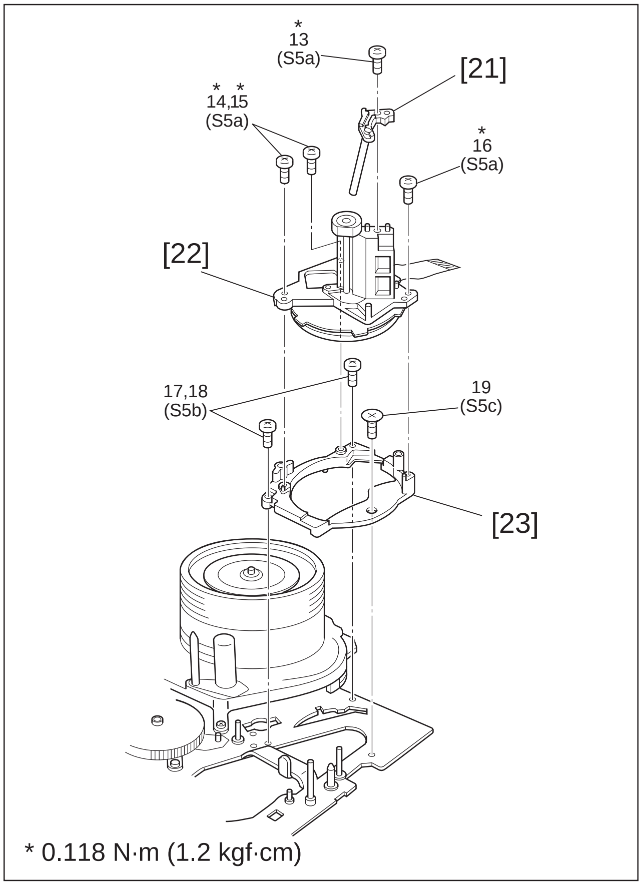
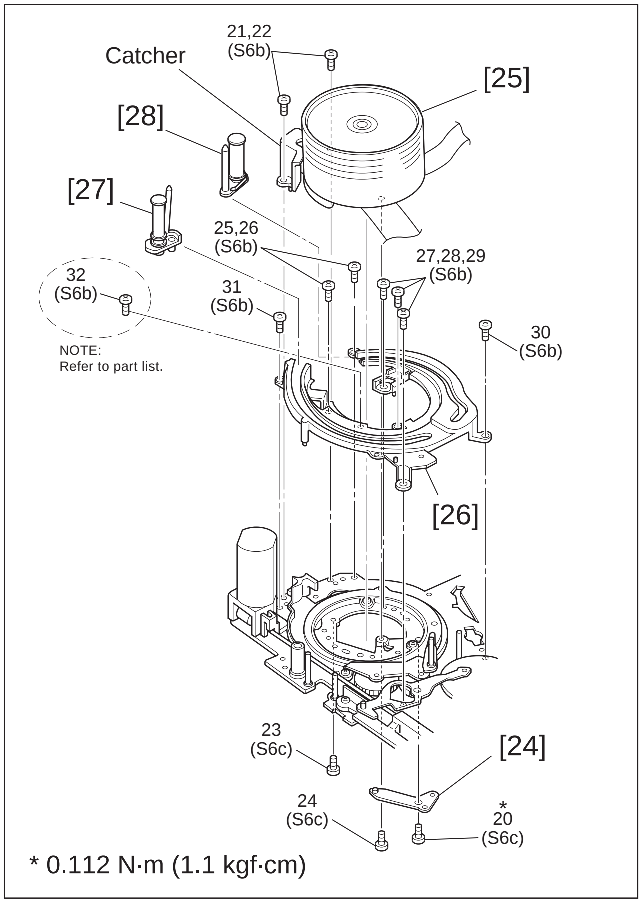

10
(S4a)
[19]
*
11
(S4b)
[20]
*
12
(S4b)
(W4)
[18]
* 0.118 N·m (1.2 kgf·cm)

Fig.M4


*
13
(S5a)
[21]
* *
14,15
(S5a)
*
16
(S5a)
[22]
17,18
(S5b)
19
(S5c)
[23]

* 0.118 N·m (1.2 kgf·cm)

Fig.M5


21,22
(S6b)
Catcher
[25]
[28]
[27]
25,26
(S6b)
27,28,29
(S6b)
32
(S6b)
31
(S6b)
30
(S6b)
NOTE:
Refer to part list.
[26]
23
(S6c)
[24]
24
(S6c)
*
20
(S6c)

* 0.112 N·m (1.1 kgf·cm)

Fig.M6

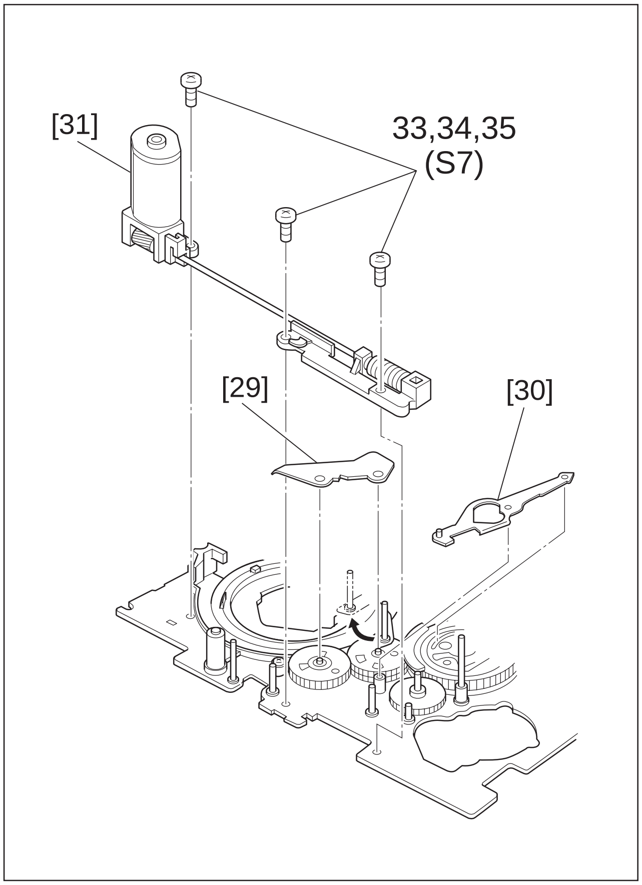

[31]
33,34,35
(S7)
[29]
[30]

Fig.M7

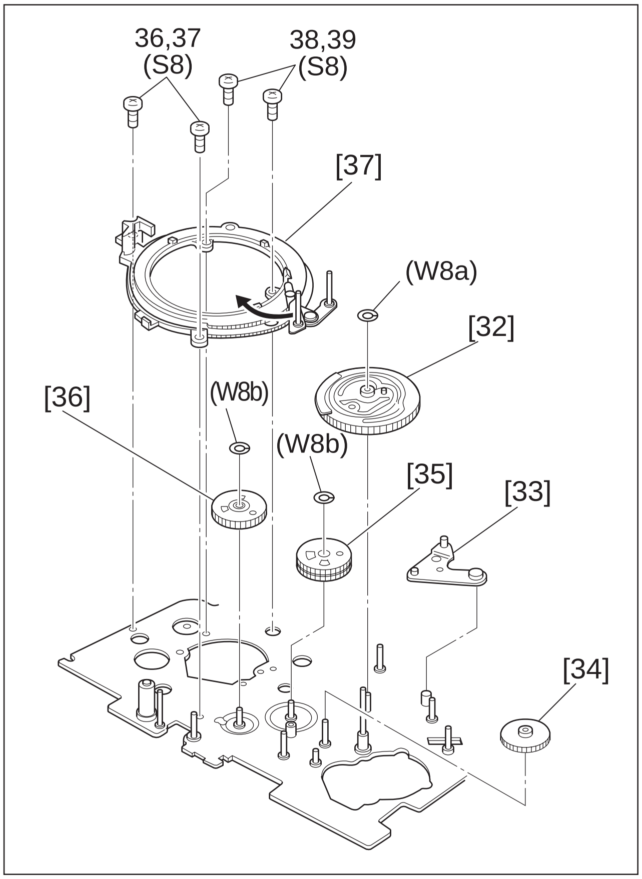

36,37
(S8)
38,39
(S8)
[37]
(W8a)
[32]
[36]
(W8b)
(W8b)
[35]
[33]
[34]

Fig.M8

2.2.4 CHECKUP AND ADJUSTMENT OF MECHANISM PHASE

NOTE:

Pay careful attention to the installing order and phase of mechanism parts of the loading system.

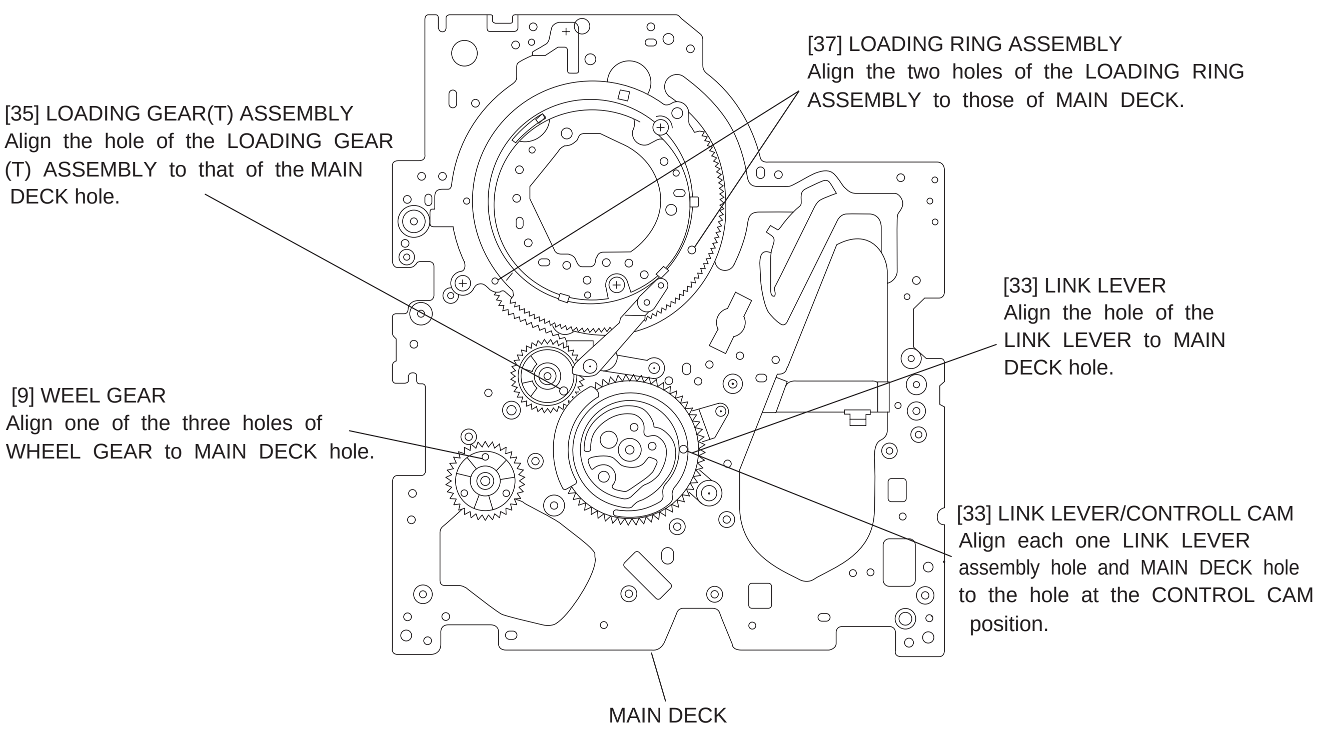

[37] LOADING RING ASSEMBLY
Align the two holes of the LOADING RING ASSEMBLY to those of MAIN DECK.
[35] LOADING GEAR(T) ASSEMBLY
Align the hole of the LOADING GEAR (T) ASSEMBLY to that of the MAIN DECK hole.
[33] LINK LEVER
Align the hole of the LINK LEVER to MAIN DECK hole.
[9] WEEL GEAR
Align one of the three holes of WHEEL GEAR to MAIN DECK hole.
[33] LINK LEVER/CONTROLL CAM
Align each one LINK LEVER assembly hole and MAIN DECK hole to the hole at the CONTROL CAM position.
MAIN DECK

Fig.2-2-5 Top of main deck

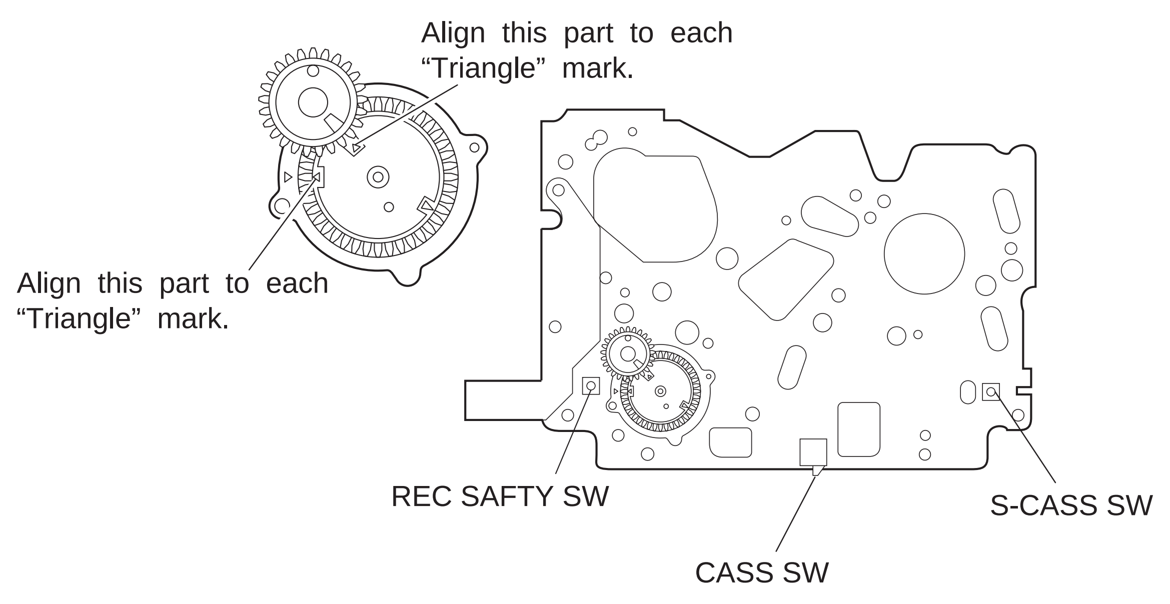

Align this part to each "Triangle" mark.
Align this part to each "Triangle" mark.
REC SAFTY SW
S-CASS SW
CASS SW

Fig.2-2-6 Rotary encoder

2.2.5 SERVISE NOTE

Use the following chart to manage screws.

Symbol No.	[1]	[7]	[10]				[12]		[13]	[19]	[20]		[21]	[22]			[23]		
Removing order of screw	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
Place to stick screw																			
Reference drawing (Fig. No.)	M1	M2	M3							M4			M5						
Screw tightening torque	Ⅰ										Ⅱ						Ⅰ		

Symbol No.	[24]	[25]				[26]								[31]			[37]			
Removing order of screw	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
Place to stick screw																				
Reference drawing (Fig. No.)	M6													M7			M8			
Screw tightening torque	Ⅲ	Ⅰ																		

Fig.2-2-7

<NOTE>

- Pay careful attention to tightening torque for each screw.
  Torque setting value of torque driver is limited. At the values over the maximum torque setting value, fasten a screw manually not to damage the screw thread.

Ⅰ : 0.216N･m(2.2kgf･cm)　Ⅱ : 0.118N･m(1.2kgf･cm)　Ⅲ : 0.112N･m(1.1kgf･cm)

2.2.6 REMARKS

2.2.6.1 Cleaning

(1) For cleaning of the upper drum (particularly video heads), use fine-woven cotton cloth with alcohol soaks through. Do not move the cloth but turn the upper drum counterclockwise.

NOTE:
Make sure not to move the cloth in the vertical direction to the video head, since it may cause damage of the video heads.

(2) For cleaning of parts of the tape transport system except the upper drum, use fine-woven cotton cloth or cotton swab soaked alcohol.

(3) After cleaning, confirm that the cleaned parts are completely dry before loading the deck with cassette tape.

2.2.6.2 Applying oil and grease

(1) Periodical oiling and greasing are not required but should be done to new parts when replacing. If oil and grease on the other parts of the other party are old and dirty, wipe them clean and apply new oil or grease.

(2) For parts and points to apply oil and grease, refer to the exploded view of the 3.2 VHS-C MECHANISM ASSEMBLY. Fig.2-2-8 specifies oil and grease to be used.

(3) When oiling, clean the objective parts with alcohol first and apply one or two drop(s) of oil. Too much oiling causes rotary parts to slip because of oil leakage.

Classification	Part No.	Symbol in drawing
Grease	KYODO-SH-JB	AA
Oil	YTU94027	BB

specifies oil and grease to be used

Fig.2-2-8

2.3 VHS MECHANISM

2.3.1 Notes

This model's mechanism relates closely to the rotary encoder and system control circuit (the rotary encoder is meshed with the control cam).

The system control circuit detects the mechanism condition using the rotary encoder's phase (internal switch phase). Therefore, the parts such as the rotary encoder, control plate, loading gear and control cam need to be installed correctly in order for the mechanism to operate properly. (For the mechanism phase adjustment, refer to the installation of each part.)

- Before using a soldering iron, be sure to disconnect the power plug from the AC outlet.
- Do not touch any of the adjustment points until a defect position is specified.
- When plugging or unplugging the connector, be sure not to damage the wire.
- Be sure the springs are hooked all the way around and in the correct direction.
- When performing repairs, take care not to damage a catch, etc.

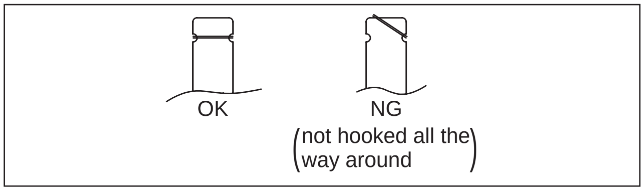


Fig.2-3-1

2.3.2 Mechanism operation check

When the mechanism is operated without a cassette loaded, operate the mechanism in the mechanism service mode.

2.3.3 Setting the mechanism assembling mode

The mechanism-assembling mode is provided with this mechanism. When disassembling and assembling, it is required to engage this mode.

Set the mode by adopting the following procedures.

(1) Remove the mechanism assembly using the disassembling procedure.

(2) Turn gear (a) of the loading motor manually to set the mechanism assembly to the eject end mode. Make sure that the main deck is connected to the guide hole (a) of the drive lever and the seal (a) of the main deck is connected to the mark “E” of the control plate. This condition is called the mechanism-assembling mode.

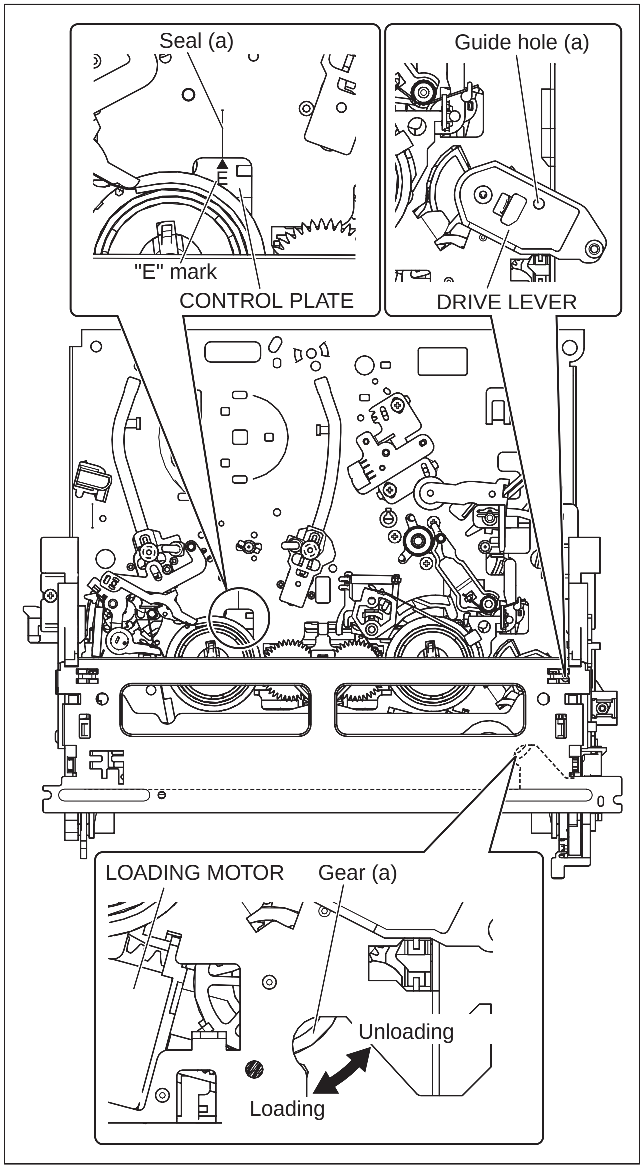


Fig.2-3-2

2.3.4 Layout of the main mechanism parts

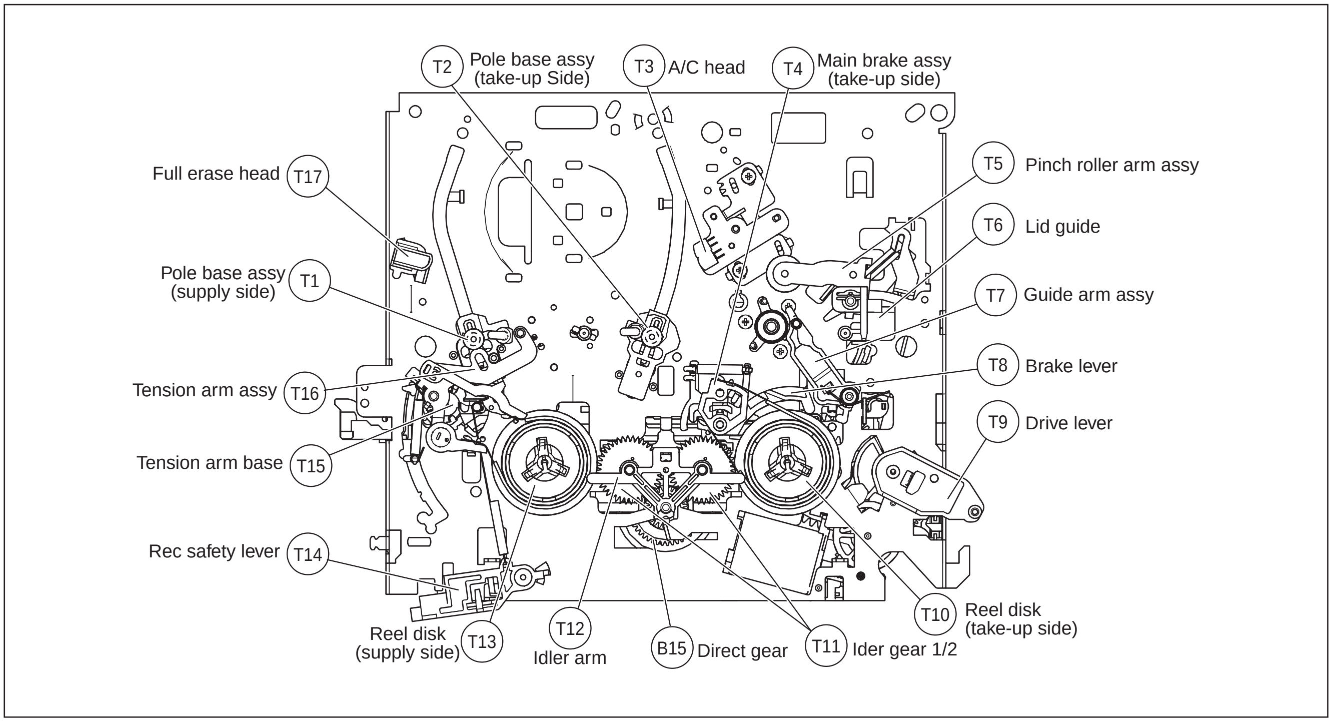

T2 Pole base assy (take-up Side)
T3 A/C head
T4 Main brake assy (take-up side)
T5 Pinch roller arm assy
T6 Lid guide
T7 Guide arm assy
T8 Brake lever
T9 Drive lever
T10 Reel disk (take-up side)
T11 Ider gear 1/2
B15 Direct gear
T12 Idler arm
T13 Reel disk (supply side)
T14 Rec safety lever
T15 Tension arm base
T16 Tension arm assy
T1 Pole base assy (supply side)
T17 Full erase head

Fig.2-3-3

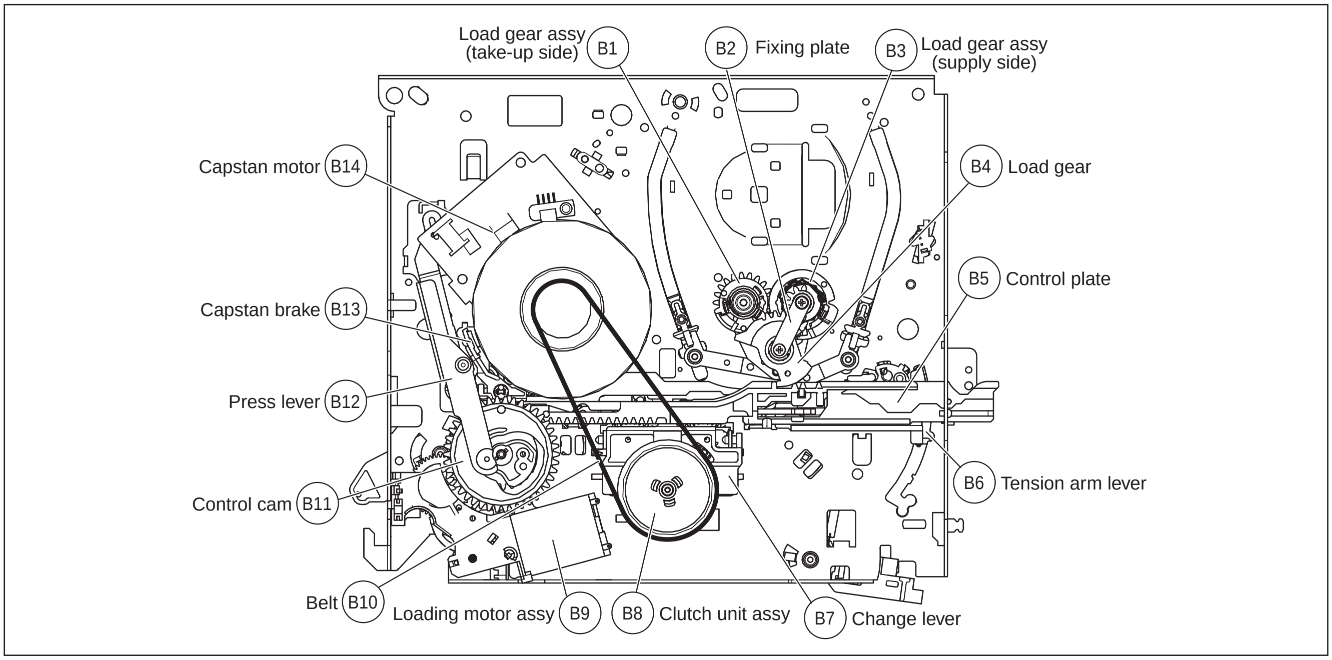

Load gear assy (take-up side) B1
B2 Fixing plate
B3 Load gear assy (supply side)
B4 Load gear
B5 Control plate
B6 Tension arm lever
B7 Change lever
B8 Clutch unit assy
B9 Loading motor assy
Belt B10
Control cam B11
Press lever B12
Capstan brake B13
Capstan motor B14

Fig.2-3-4

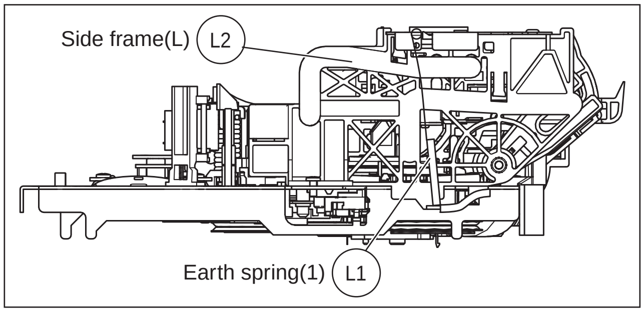

Side frame(L) L2
Earth spring(1) L1

Fig.2-3-5

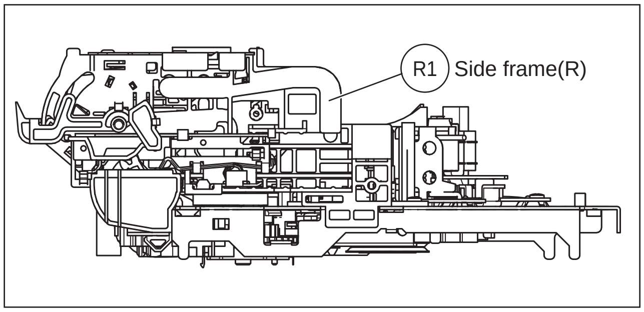

R1 Side frame(R)

Fig.2-3-6

2.3.5 Disassembling procedure table

This table shows the order of parts removal when replacing each part. For replacement, remove the parts in the order of 1 to 13 shown in the table and install the parts in the reverse order.

The symbol number before each part name shows the number in the figure “Layout of the main mechanism parts”. T and B on the right of each part name show the side from which the part should be removed (T: From the front of the mechanism, B: From the rear of the mechanism, T/B: From both sides).

		Symbols and numbers			L1	-	-	L2	-	R1	T6	T12	T11	T4	T10	T16	T15	B12	B11	B13	B9	B10	B2	B4	B3	B1	B5	B8	B15
Symbols and numbers		Removal parts (Reference items) Replacement parts	Front(T)/Back(B) of mechanism	Number of removal steps	Earth spring (1)	Top frame	Cassette holder	Side frame (L)	Drive arm	Side frame (R)	Lid guide	Idler arm	Idler gear 1/2	Main brake (T)	Reel disk (T)	Tension arm	Tension arm base	Press lever	Control cam	Capstan brake assy	Loading motor assy	Belt	Fixing plate	Load gear	Loading gear assy (S)	Loading gear assy (T)	Control plate	Clutch unit	Direct gear
L1	2.1	Earth spring (1)	T	1																									
-	2.1	Top frame	T	2	1																								
-	2.1	Cassette holder	T	3	1	2																							
L2	2.1	Side frame (L)	T	3	1	2																							
-	2.1	Drive arm	T	5	1	2	3	4																					
R1	2.1	Side frame (R)	T	3	1	2																							
T3	2.2	A/C head	T	1																									
T17	-	FE head	T/B	1																									
T7	2.3	Guide arm assy	T	1																									
T6	2.3	Lid guide	T	1																									
T5	2.3	Pinch roller arm assy	T	2							1																		
T12	2.4	Idler arm	T	4	1	2	3																						
T11	2.4	Idler gear 1/2	T	5	1	2	3					4																	
T4	2.5	Main brake assy (T)	T	6	1	2	3					4	5																
T10	2.5	Reel disk (T)	T	7	1	2	3					4	5	6															
T16	2.5	Tension arm	T	6	1	2	3					4	5																
T13	2.5	Reel disk (S)	T	7	1	2	3					4	5			6													
T15	2.5	Tension arm base	T	7	1	2	3					4	5			6													
-	-	T-up head	T	8	1	2	3					4	5			6	7												
-	-	T-up lever	T	8	1	2	3					4	5			6	7												
T8	2.5	Brake lever	T	8	1	2	3					4	5	6	7														
T14	2.5	Rec safety lever	T	7	1	2	3	4	5	6																			
B12	2.6	Press lever	B	1																									
B11	2.6	Control cam	B	2														1											
B13	2.6	Capstan brake assy	B	3														1	2										
B9	2.6	Loading motor assy	B	4														1	2	3									
B10	2.7	Belt	B	1																									
B14	2.7	Capstan motor	T/B	2																		1							
-	-	Wire holder	T/B	1																									
B2	2.7	Fixing plate	B	1																									
B4	2.7	Load gear	B	2																			1						
B3	2.7	Loading gear assy(S)	B	3																			1	2					
B1	2.7	Loading gear assy(T)	B	4																			1	2	3				
T1	-	Pole base assy(S)	T/B	4																			1	2	3				
T2	-	Pole base assy(T)	T/B	5																			1	2	3	4			
-	-	Load gear base	B	5																			1	2	3	4			
B5	2.7	Control plate	B	6														1	2			3	4	5					
T9	-	Drive lever	T/B	10	1	2	3	4	5	6								7	8		9								
B8	2.8	Clutch unit	B	2																		1							
B15	2.8	Direct gear	B	3																		1						2	
B7	-	Change lever	T/B	6								1	2									3						4	5
B6	-	Tension arm lever	T/B	14	1	2	3					4	5			6	7	8	9			10	11	12			13		

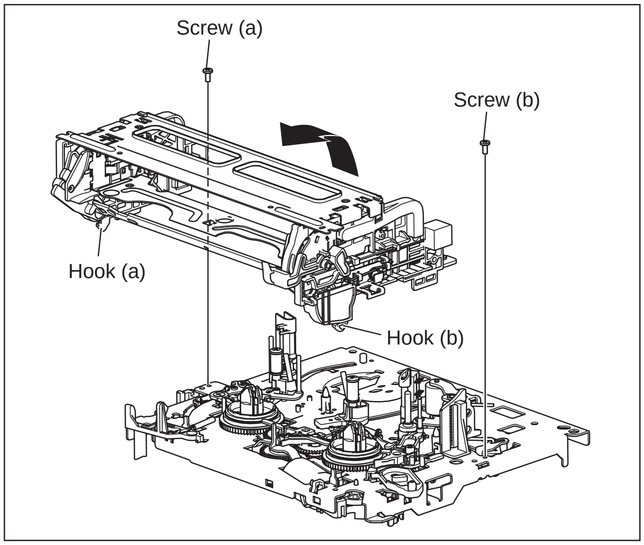
2.3.6 REPLACEMENT OF THE MAIN MECHANISM PARTS

2.3.6.1 Cassette holder

2.3.6.1.1 Removal

(1) Remove the screws (a) and (b).

(2) Hold up the top frame, cassette holder assembly, drive arm assembly and side frames (L/R) all together and remove them by releasing the hooks (a) and (b).



Screw (a)
Screw (b)
Hook (a)
Hook (b)

Fig.2-3-7

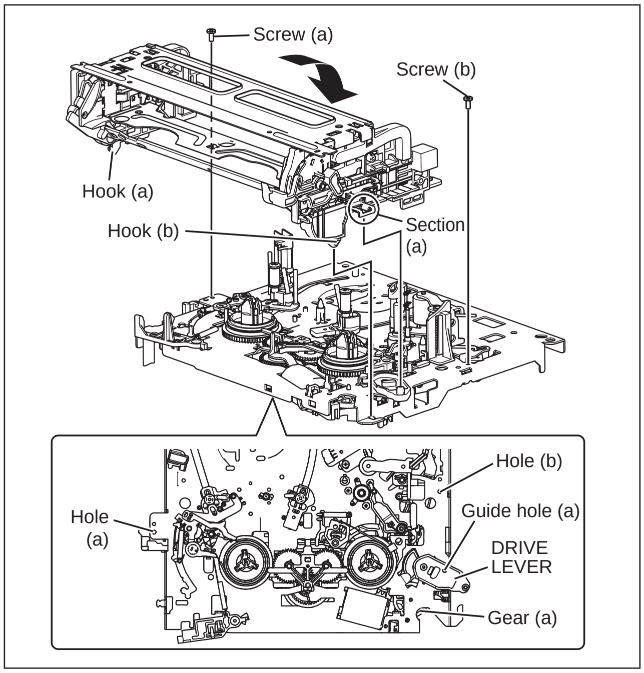
2.3.6.1.2 Installation (phase adjustment)

(1) Turn gear (a) of the loading motor assembly so that the main deck connects to the guide hole (a) of the drive lever.

(2) Hook the main deck to hooks (a) and (b).

(3) Place the projection of the drive lever to section (a) of the side frame (R) and install the cassette holder to the main deck. Make sure that the bosses of the side frame (L/R) connect with the holes (a) and (b) of the main deck.

(4) Secure screws (a) and (b).



Screw (a)
Screw (b)
Hook (a)
Hook (b)
Section (a)
Hole (b)
Hole (a)
Guide hole (a)
DRIVE LEVER
Gear (a)

Fig.2-3-8

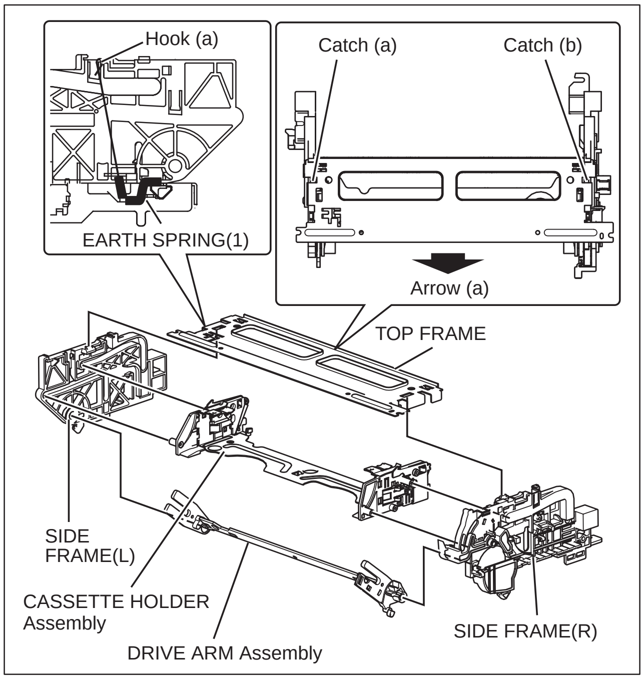
2.3.6.1.3 Disassembling

(1) Release hook (a) to remove the earth spring (1) from the top frame.

(2) Release the catches (a) and (b) and pull the top frame in the direction shown by the arrow (a) to remove it.

(3) Pull out the side frame (R).

(4) Pull out the cassette holder assembly and drive arm assembly from the side frame (L).



Hook (a)
EARTH SPRING(1)
Catch (a)
Catch (b)
Arrow (a)
TOP FRAME
SIDE FRAME(L)
CASSETTE HOLDER Assembly
DRIVE ARM Assembly
SIDE FRAME(R)

Fig.2-3-9

2.3.6.1.4 Assembling (installation and phase adjustment)

(1) Turn gear (a) of the loading motor assembly so that the main deck connects to the guide hole (a) of the drive lever.

(2) Place the projection of the drive lever on section (a) of the side frame (R) and install the side frame (R) to the main deck.

(3) Secure screw (b).

(4) Place section (b) of the drive arm on the gear of the side frame (R). Make sure that the pin of the door opener connects with section (c) of the drive arm.

(5) Place the drive arm on section (d) of the side frame (L) and install the side frame (L) on the main deck. Be sure to connect the earth spring (1) to the side frame (L).

(6) Secure screw (a).

(7) Turn gear (a) of the loading motor assembly until the drive arm is vertical.

(8) Place the slit of the side frame (L/R) at the foot of the cassette holder assembly and install the cassette holder.

(9) Place the top frame on the position guide (a) of the side frame (L/R) and push it in the direction shown by the arrow (a) for installation.

(10) Hook the earth spring (1) to the hook (a) of the top frame.

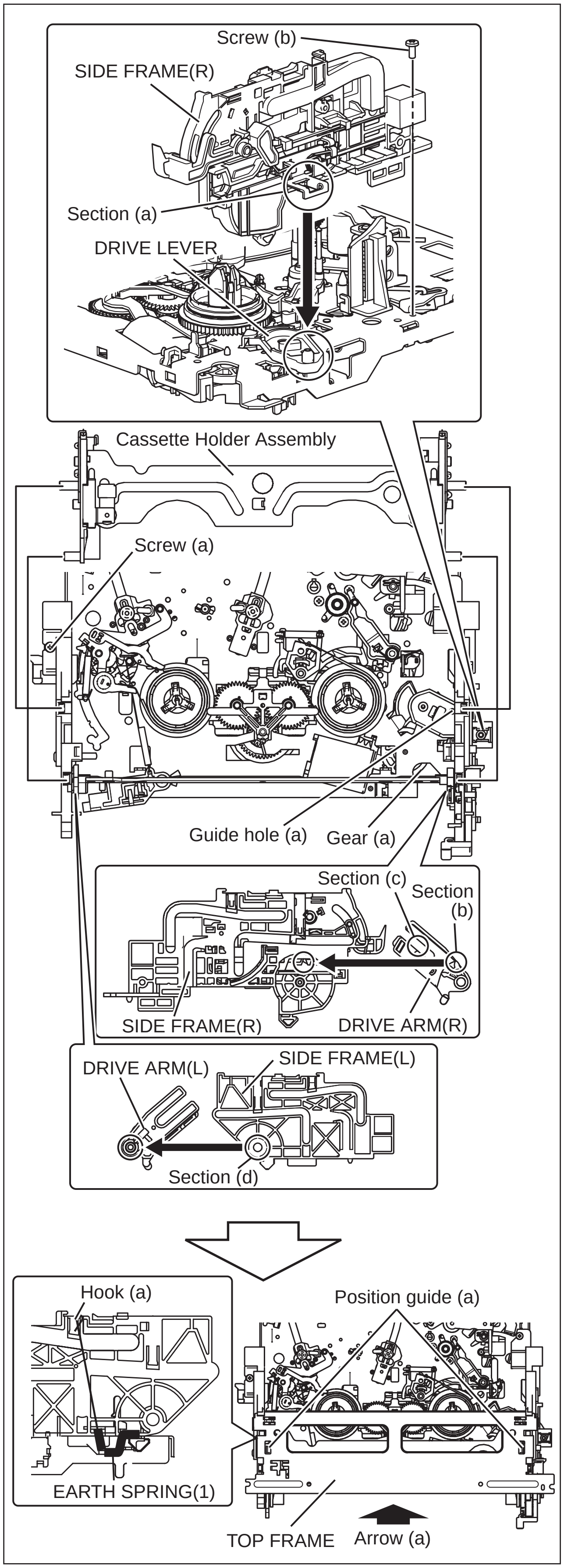

Screw (b)
SIDE FRAME(R)
Section (a)
DRIVE LEVER
Cassette Holder Assembly
Screw (a)
Guide hole (a)
Gear (a)
Section (c)
Section (b)
SIDE FRAME(R)
DRIVE ARM(R)
DRIVE ARM(L)
SIDE FRAME(L)
Section (d)
Hook (a)
Position guide (a)
EARTH SPRING(1)
TOP FRAME
Arrow (a)

Fig.2-3-10

2.3.6.2 A/C head

2.3.6.2.1 Removal

(1) Remove screws (a) and (b).
(2) Remove the A/C head together with the head base.
(3) Remove the screws (c), (d) and (e) to remove the spring (a) and the A/C head from the Head base.

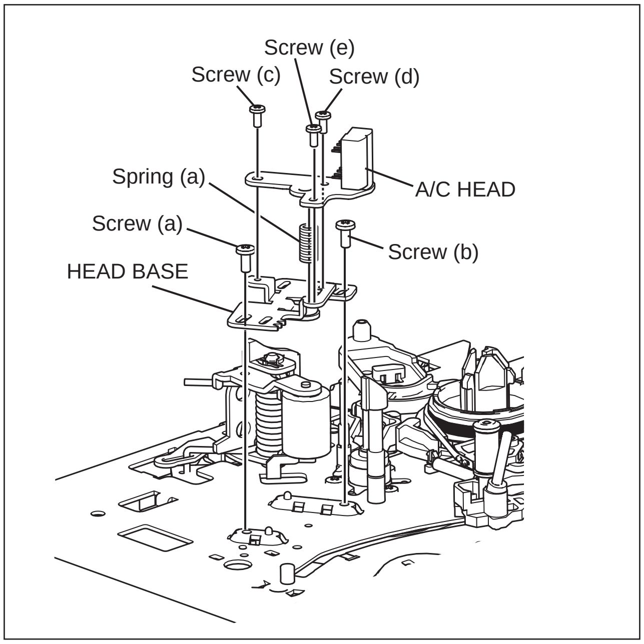

Screw (e)
Screw (c)
Screw (d)
Spring (a)
A/C HEAD
Screw (a)
Screw (b)
HEAD BASE

Fig.2-3-11

2.3.6.2.2 Installation (initial setting)

To install the A/C head to the head base, secure the screws in the order of (c), (d) and (e). To make the adjustment easy, temporarily elevate the A/C head.

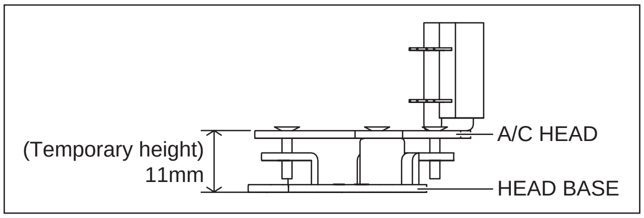

(Temporary height)
11mm
A/C HEAD
HEAD BASE

Fig.2-3-12

2.3.6.3 Guide arm, pinch roller arm

2.3.6.3.1 Removal

(1) Remove the spring (a) from the hook (a) and detach the guide arm assembly.
(2) Release the catch (a) to remove the lid guide.
(3) Remove the spring (b) from the hook (b) and detach the pinch roller arm assembly.

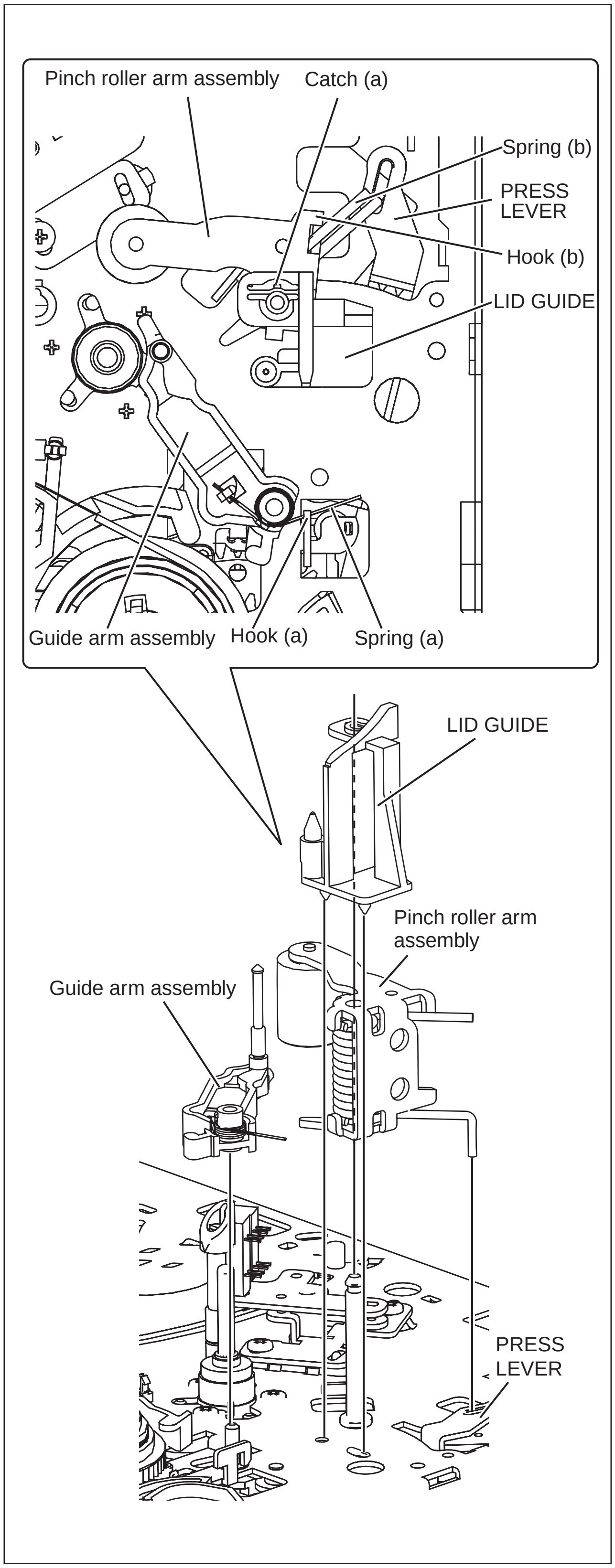

Pinch roller arm assembly
Catch (a)
Spring (b)
PRESS LEVER
Hook (b)
LID GUIDE
Guide arm assembly
Hook (a)
Spring (a)
LID GUIDE
Pinch roller arm assembly
Guide arm assembly
PRESS LEVER

Fig.2-3-13

2.3.6.4 Idler arm, idler gear 1/2

2.3.6.4.1 Removal

(1) Release the catches (a) and (b) to detach the idler arm.
(2) Detach the idler gear 1/2.

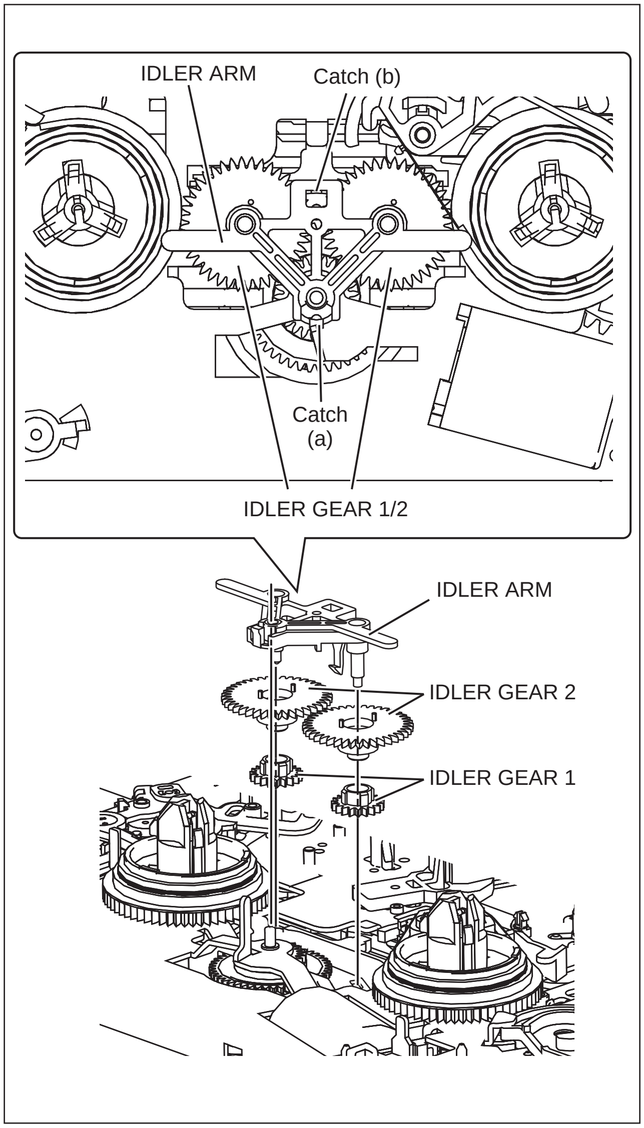
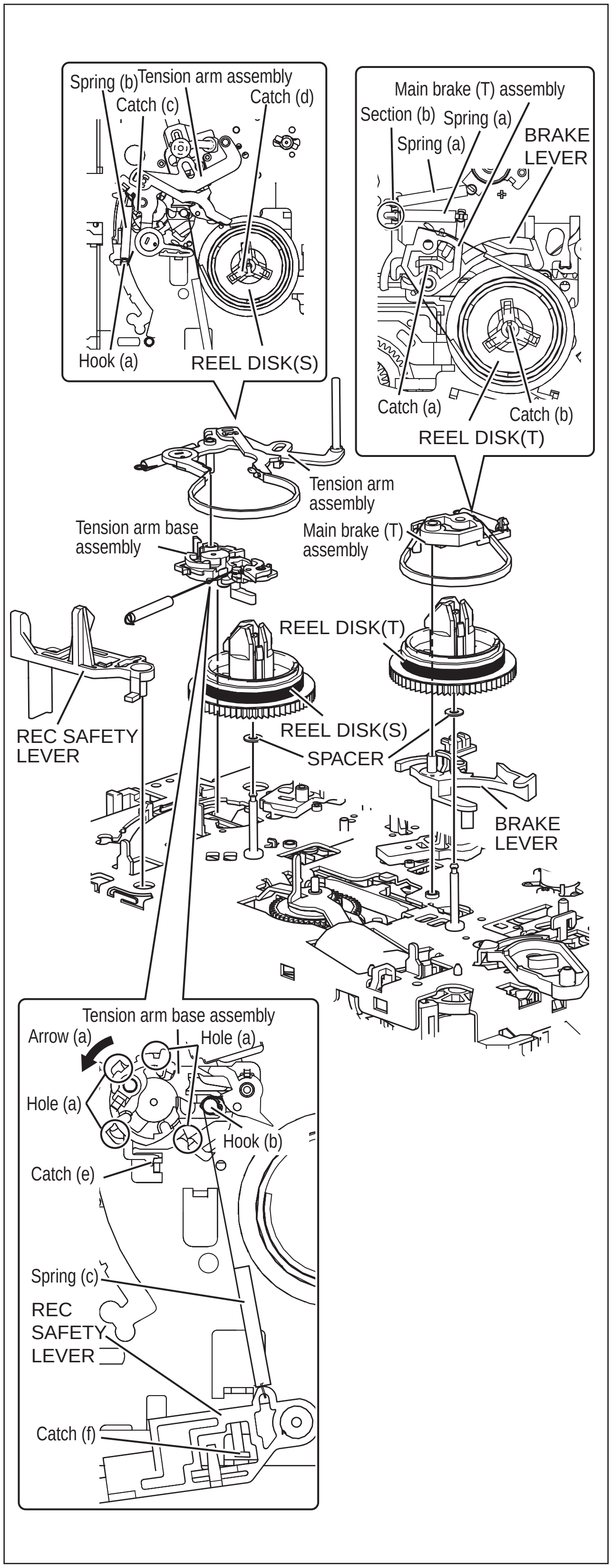

IDLER ARM
Catch (b)
Catch (a)
IDLER GEAR 1/2
IDLER ARM
IDLER GEAR 2
IDLER GEAR 1

Fig.2-3-14

2.3.6.5 Main brake (T), brake lever, tension arm, reel disk (S/T), Rec safety lever

2.3.6.5.1 Removal

(1) Remove the spring (a). (Detach section (b) of the spring (a).)
(2) Release the catch (a) to detach the main brake (T).
(3) Release the catch (b) to detach the reel disk (T) and the spacer.
(4) Lift up and turn section (b) of the brake lever counterclockwise to remove the brake lever.
(5) Remove the spring (b) from the hook (a).
(6) Release the catch (c) to detach the tension arm.
(7) Release the catch (d) to detach the reel disk (S) and the spacer.
(8) Remove the spring (c) from the hook (b).
(9) Turn the tension arm base in the direction shown by arrow (a) to release catch (e). Place the projections of the tension arm base to the holes (a) to detach the tension arm base.
(10) While releasing the catch (f), turn the Rec safety lever counterclockwise to remove it.



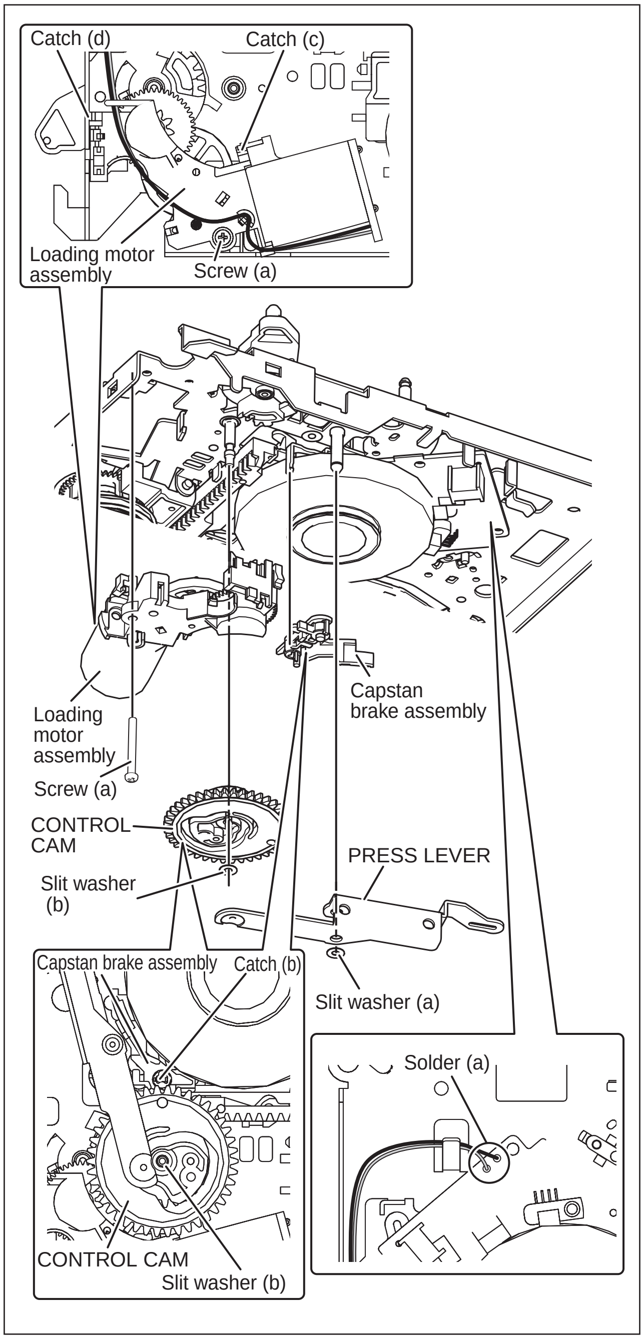
Spring (b)
Tension arm assembly
Catch (c)
Catch (d)
Hook (a)
REEL DISK(S)
Main brake (T) assembly
Section (b)
Spring (a)
Spring (a)
BRAKE LEVER
Catch (a)
Catch (b)
REEL DISK(T)
Tension arm assembly
Tension arm base assembly
Main brake (T) assembly
REEL DISK(T)
REC SAFETY LEVER
REEL DISK(S)
SPACER
BRAKE LEVER
Tension arm base assembly
Arrow (a)
Hole (a)
Hole (a)
Hook (b)
Catch (e)
Spring (c)
REC SAFETY LEVER
Catch (f)

Fig.2-3-15

2.3.6.6 Press lever, control cam, capstan brake assembly, loading motor assembly

2.3.6.6.1 Removal

(1) Remove the slit washer (a) to detach the press lever.
(2) Release the slit washer (b) to detach the control cam.
(3) Release the catch (b) to detach the capstan brake assembly.
(4) Remove the solder (a).
(5) Remove the screw (a).
(6) Release the catches (c) and (d) to detach the loading motor assembly.



Catch (d)
Catch (c)
Loading motor assembly
Screw (a)
Loading motor assembly
Screw (a)
Capstan brake assembly
CONTROL CAM
PRESS LEVER
Slit washer (b)
Slit washer (a)
Capstan brake assembly
Catch (b)
Solder (a)
CONTROL CAM
Slit washer (b)

Fig.2-3-16

2.3.6.6.2 Installation (phase adjustment)

(1) Attach the loading motor assembly to the main deck.
(2) Secure the screw (a).
(3) Solder the wire to section (a).
(4) Arrange the wire along with the position guide (b).
(5) Attach the capstan brake assembly to the main deck.
(6) Place the main deck on the guide hole (a) of the control plate.
(7) Place the main deck on the guide hole (b) of the drive lever.
(8) Place the main deck no guide hole (c) of the control cam to install the control cam.
(9) Move the capstan brake in the direction shown by the arrow (a) to attach the press lever to the shaft (a). Make sure that the boss of the press lever fits in the control cam, and that the shaft (b) of the pinch roller arm assembly connects with the hole of the press lever.
(10) Attach slit washer (a) to shaft (a).

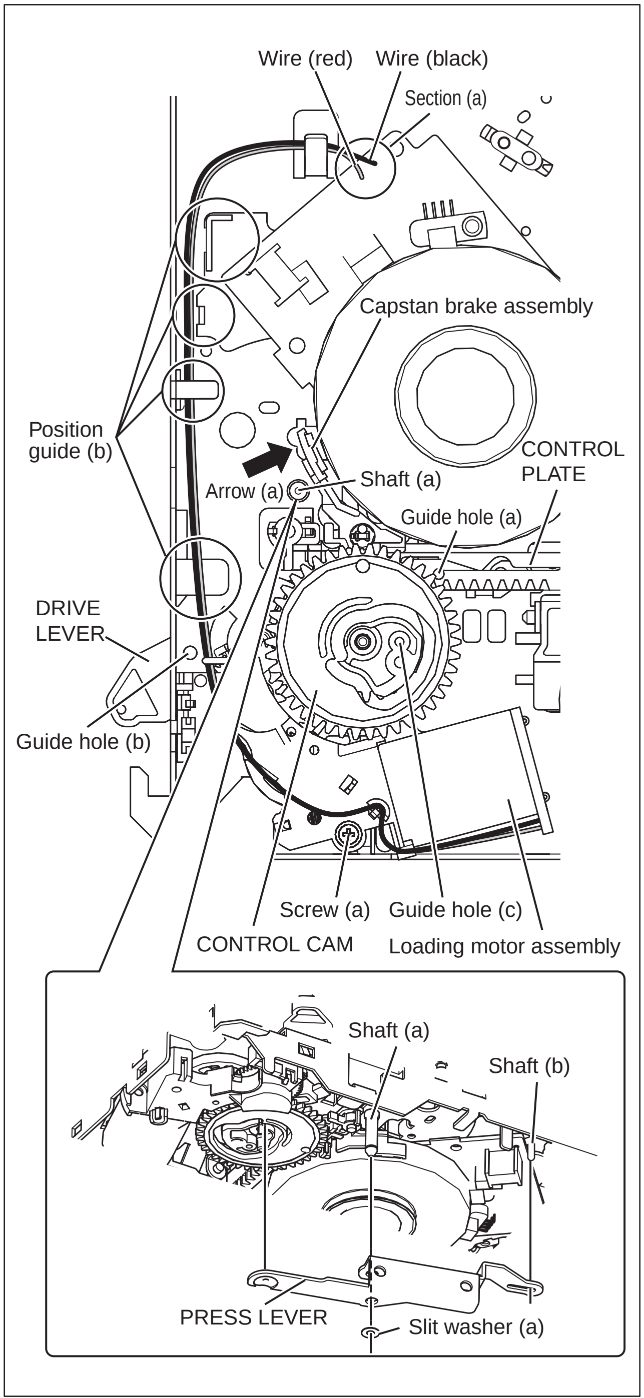

Wire (red)
Wire (black)
Section (a)
Capstan brake assembly
Position guide (b)
CONTROL PLATE
Arrow (a)
Shaft (a)
Guide hole (a)
DRIVE LEVER
Guide hole (b)
Screw (a)
Guide hole (c)
CONTROL CAM
Loading motor assembly
Shaft (a)
Shaft (b)
PRESS LEVER
Slit washer (a)

Fig.2-3-17

Note:

- When replacing the worm bearing of the loading motor assembly, attach it according to the following specification.
  If worm bearing is not attached correctly, a mechanism noise may occur. (See Fig. 2-3-18)

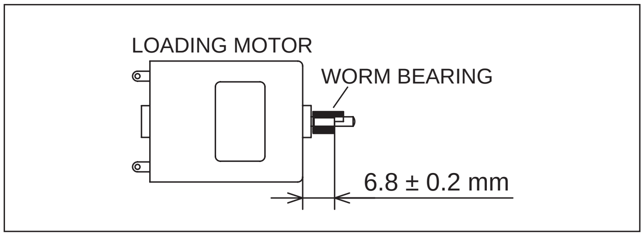

LOADING MOTOR
WORM BEARING
6.8 ± 0.2 mm

Fig.2-3-18

2.3.6.7 Capstan motor, load gear, control plate

2.3.6.7.1 Removal

(1) Detach the belt.
(2) Check that the FFC connector on the drum is disconnected.
(3) Release the catch (a) to remove the FFC wire.
(4) Remove the screws (a) to detach the capstan motor.
(5) Remove the screws (b) to detach the fixing plate.
(6) Release the catch (b) to detach the load gear.
(7) Turn the load gear (S/T) in the loading direction to detach it.
(8) Remove the control plate.

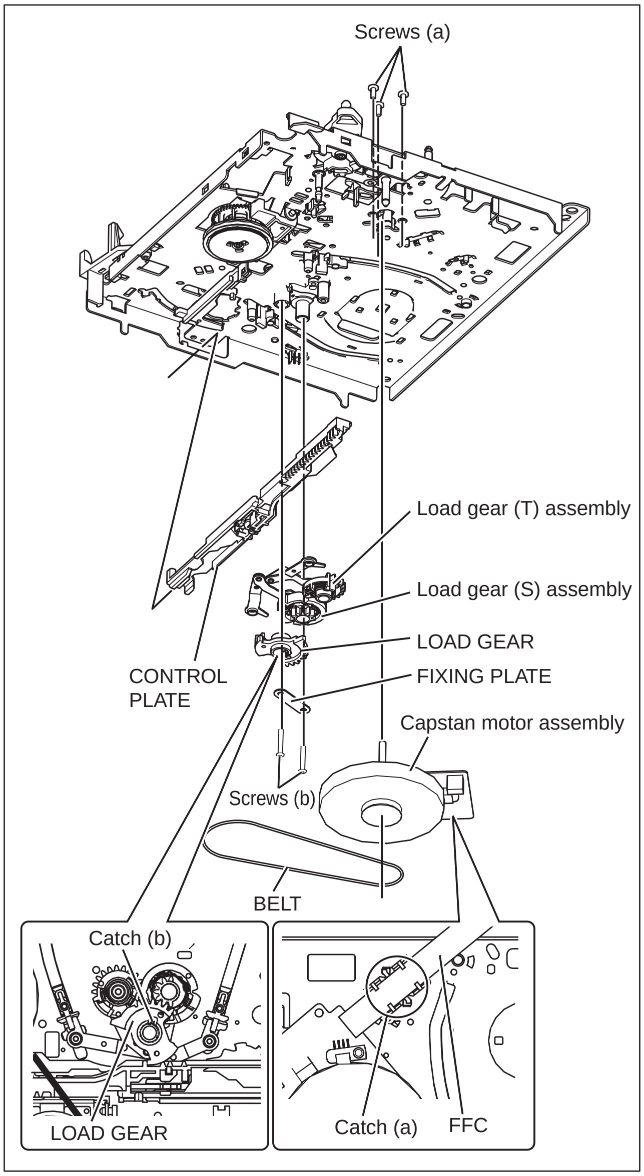

Screws (a)
Load gear (T) assembly
Load gear (S) assembly
LOAD GEAR
FIXING PLATE
CONTROL PLATE
Capstan motor assembly
Screws (b)
BELT
Catch (b)
LOAD GEAR
Catch (a)
FFC

Fig.2-3-19

2.3.6.7.2 Installation (phase adjustment)

(1) Place the main deck on the guide hole (a) of the tension arm lever.
(2) Place the main deck on the guide hole (b) of the brake lever.
(3) Attach the control plate to align with the position guide (a).
(4) Place the hole (c) of the load arm (T) on the pole base (T) and the load gear (T) on the load gear base.
(5) Place the hole (d) of the load arm (S) on the pole base (S) and the load gear (S) on the load gear base. Be sure to align the guide mark (e) of the load gear (T) to that of the load gear (S).
(6) Turn the load gear (S/T) in the unloading direction to place the main deck on the guide hole (f) of the load gear (T).
(7) Place the main deck on the guide hole (g) of the control plate.
(8) Attach the load gear on the load gear base so that the control plate is placed on the edge (h) of the load gear.
(9) Place the fixing plate on the shaft of the load gear base and secure the screws (b).

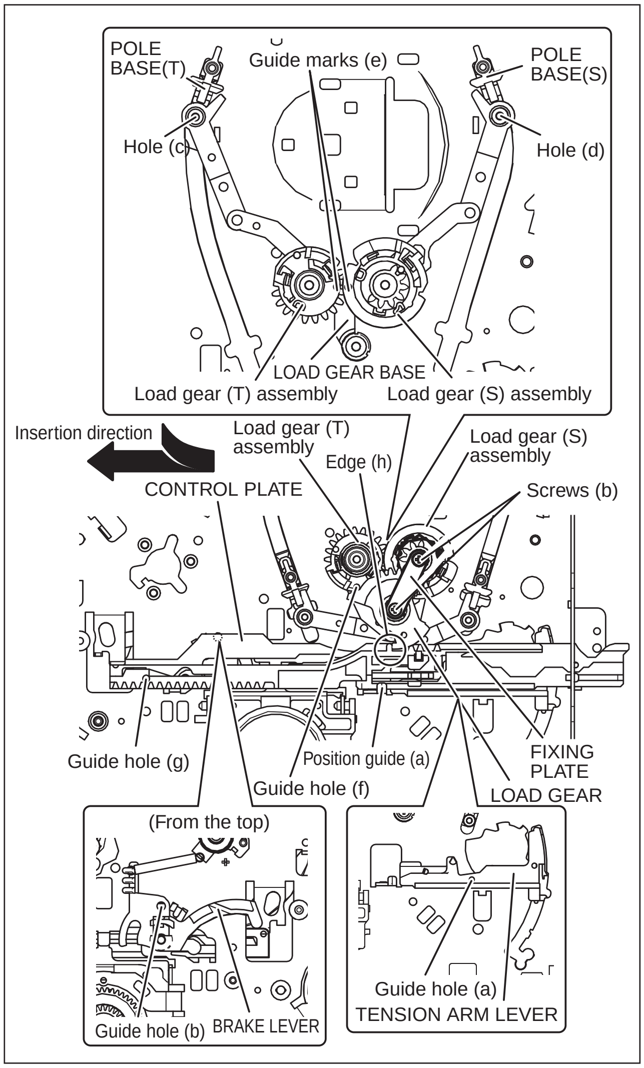

POLE BASE(T)
Guide marks (e)
POLE BASE(S)
Hole (c)
Hole (d)
LOAD GEAR BASE
Load gear (T) assembly
Load gear (S) assembly
Insertion direction
Load gear (T) assembly
Edge (h)
Load gear (S) assembly
CONTROL PLATE
Screws (b)
Guide hole (g)
Position guide (a)
FIXING PLATE
Guide hole (f)
LOAD GEAR
(From the top)
Guide hole (b)
BRAKE LEVER
Guide hole (a)
TENSION ARM LEVER

Fig.2-3-20

2.3.6.8 Clutch unit assembly, direct gear

2.3.6.8.1 Removal

(1) Remove the slit washer (a) to detach the clutch unit assembly.
(2) Remove the spring (a) and the direct gear.

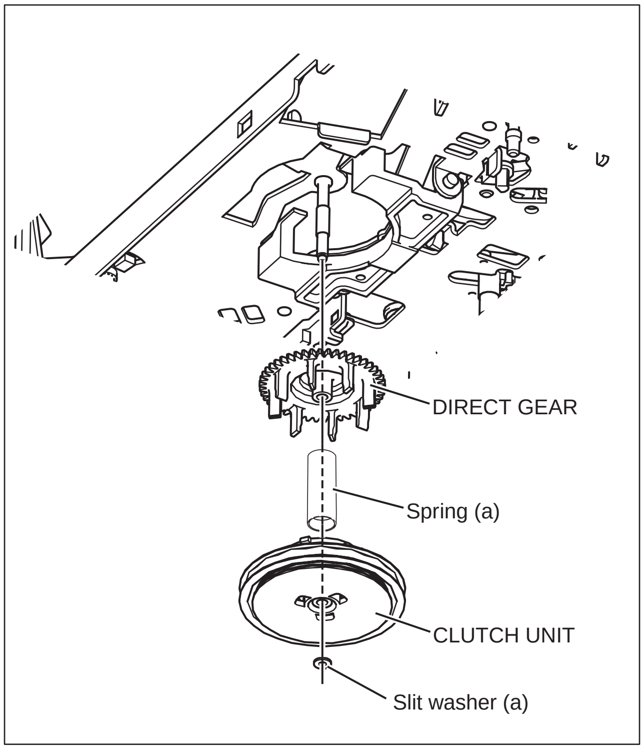
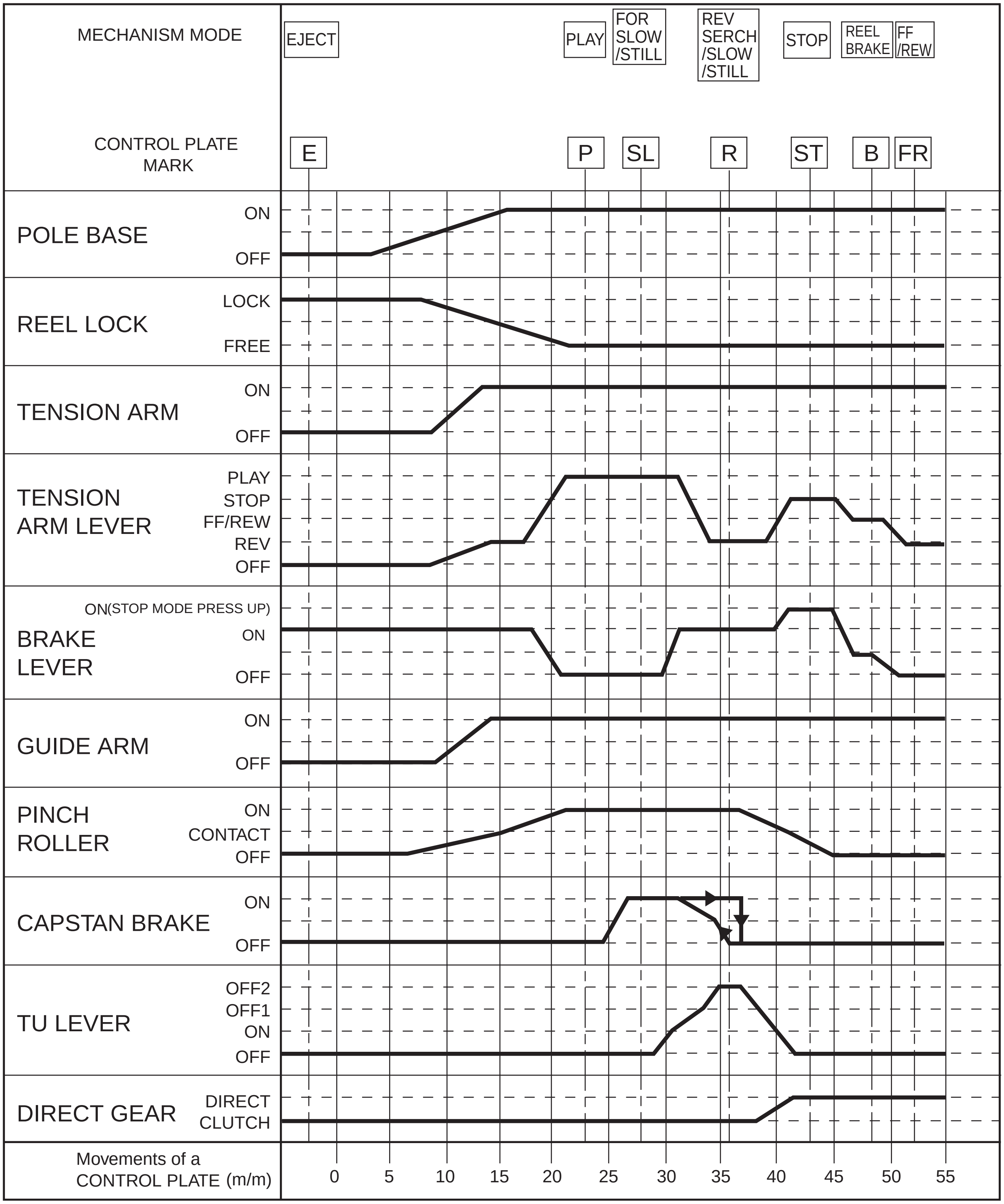

DIRECT GEAR
Spring (a)
CLUTCH UNIT
Slit washer (a)

Fig.2-3-21

2.3.7 MECHANISM TIMING CHART



2.3.8 REMARKS

2.3.8.1 Cleaning

(1) For cleaning of the upper drum (particularly video heads), use fine-woven cotton cloth with alcohol soaks through. Do not move the cloth but turn the upper drum counterclockwise.

NOTE:

Make sure not to move the cloth in the vertical direction to the video head, since it may cause damage of the video heads.

(2) For cleaning of parts of the tape transport system except the upper drum, use fine-woven cotton cloth or cotton swab soaked alcohol.

(3) After cleaning, confirm that the cleaned parts are completely dry before loading the deck with cassette tape.

2.3.8.2 Applying oil and grease

(1) Periodical oiling and greasing are not required but should be done to new parts when replacing. If oil and grease on the other parts of the other party are old and dirty, wipe them clean and apply new oil or grease.

(2) For parts and points to apply oil and grease, refer to the exploded view of the 3.3 VHS MECHANISM ASSEMBLY. Fig.2-3-22 specifies oil and grease to be used.

(3) When oiling, clean the objective parts with alcohol first and apply one or two drop(s) of oil. Too much oiling causes rotary parts to slip because of oil leakage.

Classification	Part No.	Symbol in drawing
Grease	KYODO-SH-JB	AA
Oil	COSMO-HV56	BB

specifies oil and grease to be used

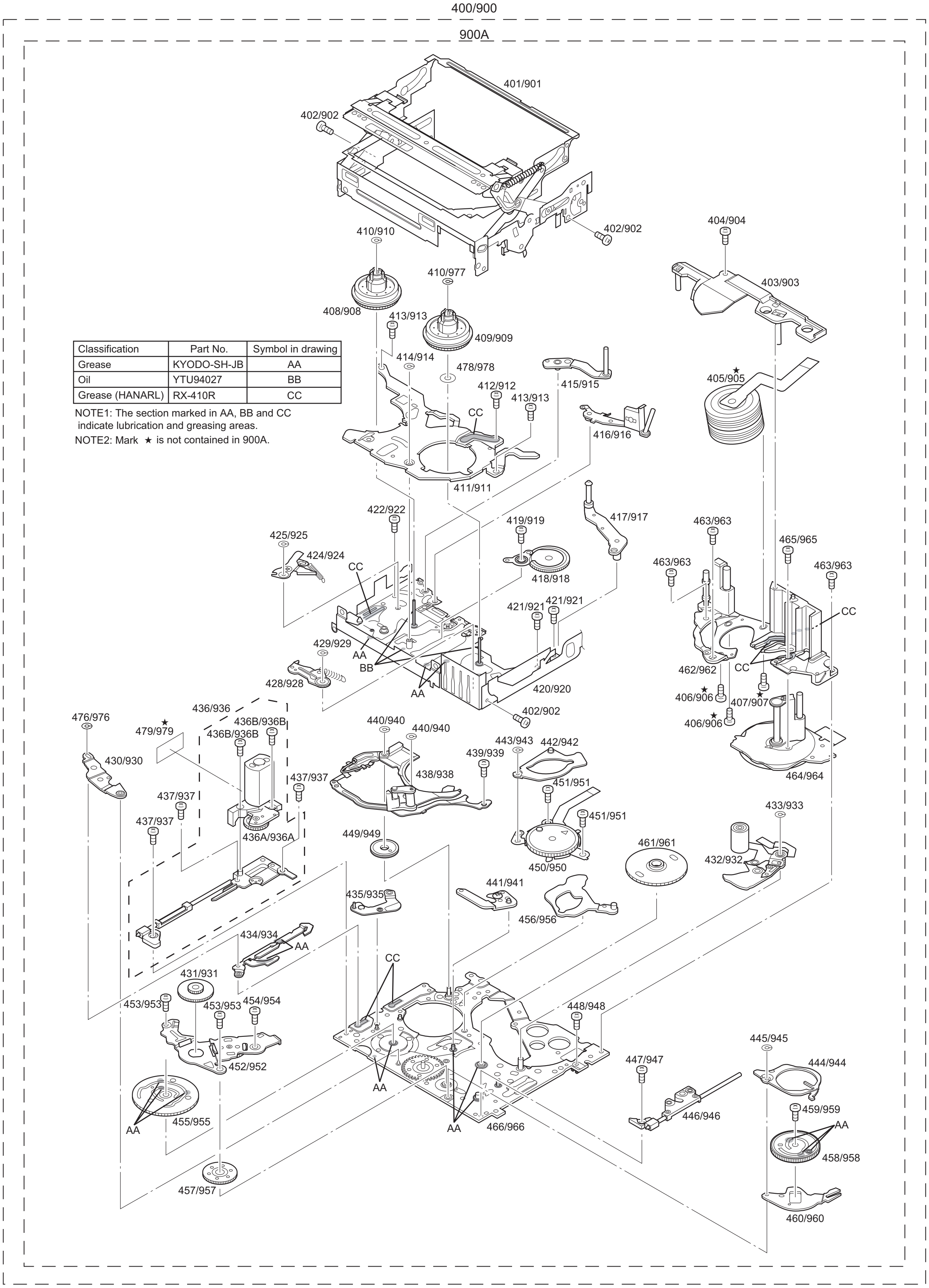
Fig.2-3-22

VICTOR COMPANY OF JAPAN, LIMITED
AV & MULTIMEDIA COMPANY CAMCORDER CATEGORY 12, 3-chome, Moriya-cho, kanagawa-ku, Yokohama, kanagawa-prefecture, 221-8528, Japan

Printed in Japan
200304WPC

SECTION 3
PARTS LIST

3.1 DVC MECHANISM ASSEMBLY


400/900
900A
401/901
402/902
402/902
404/904
410/910
410/977
403/903
408/908
413/913
409/909
414/914
478/978
412/912
415/915
★ 405/905
CC
413/913
416/916
411/911
422/922
419/919
417/917
463/963
425/925
424/924
CC
465/965
463/963
463/963
418/918
421/921
421/921
CC
429/929
AA
BB
462/962
CC
428/928
AA
420/920
★ 406/906
★ 407/907
402/902
★ 406/906
476/976
436/936
★ 479/979
436B/936B
436B/936B
440/940
440/940
443/943
442/942
439/939
430/930
437/937
438/938
451/951
437/937
451/951
464/964
433/933
437/937
436A/936A
449/949
461/961
432/932
450/950
441/941
435/935
456/956
434/934
AA
CC
431/931
453/953
453/953
454/954
448/948
445/945
447/947
444/944
452/952
AA
459/959
AA
446/946
455/955
AA
AA
466/966
458/958
457/957
460/960

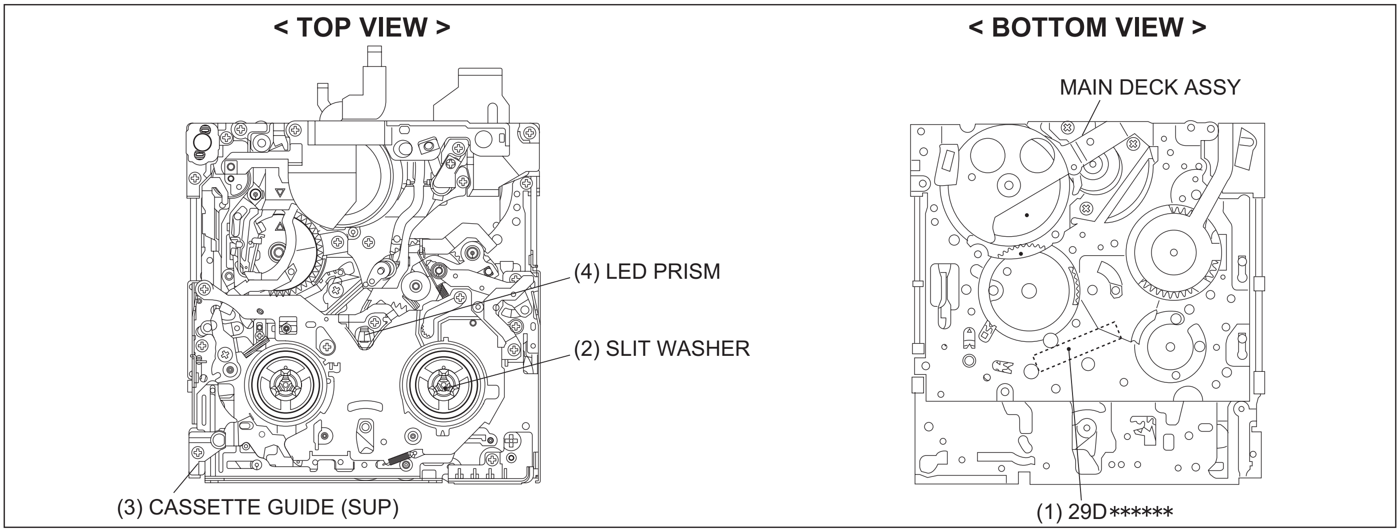
Classification	Part No.	Symbol in drawing
Grease	KYODO-SH-JB	AA
Oil	YTU94027	BB
Grease (HANARL)	RX-410R	CC

NOTE1: The section marked in AA, BB and CC indicate lubrication and greasing areas.
NOTE2: Mark ★ is not contained in 900A.

Fig.3-1-1

3.1.1 DVC MECHANISM ASSEMBLY PART LIST

- Since parts numbers described here are the numbers at the time of manualissue, they are subject to change without notice. Therefore, be sure to see a parts list in the service manual of each model as for parts numbers.
- To distinguish the mechanism assembly with the symbol number of 400-499 from the mechanism assembly with the symbol number of 900-999, see the following procedures.
  (1) See the numbers on the backside of the MAIN DECK ASSY.
  For example, "29D******" is printed on the backside of the mechanism assembly with the symbol number of 900-999 (YMA0029D in this example). See the first three characters and numbers from the left.
  (2) See the color of the SLIT WASHER on the REEL DISK (TU).
  A red slit washer is used (the same color as a slit washer of CASSETTE GUIDE (SUP)) in the mechanism assembly with the symbol number of 400-499. A black slit washer is used in the mechanism assembly with the symbol number of 900-999.
  However, the black slit washer may be changed into a red one for the purpose of parts unification.
  (3) See the color of the CASSETTE GUIDE(SUP).
  Light-brown CASSETTE GUIDE(SUP) is used in the mechanism assembly with the symbol number of 400-499.
  Black CASSETTE GUIDE(SUP) is used in the mechanism assembly with the symbol number of 900-999.
  (4) See the shape of the LED PRISM. LED PRISM consists of only resin in the mechanism assembly with the symbol number of 400-499.
  Upper part of the LED PRISM is covered with black metal in the mechanism assembly with the symbol number of 900-999.



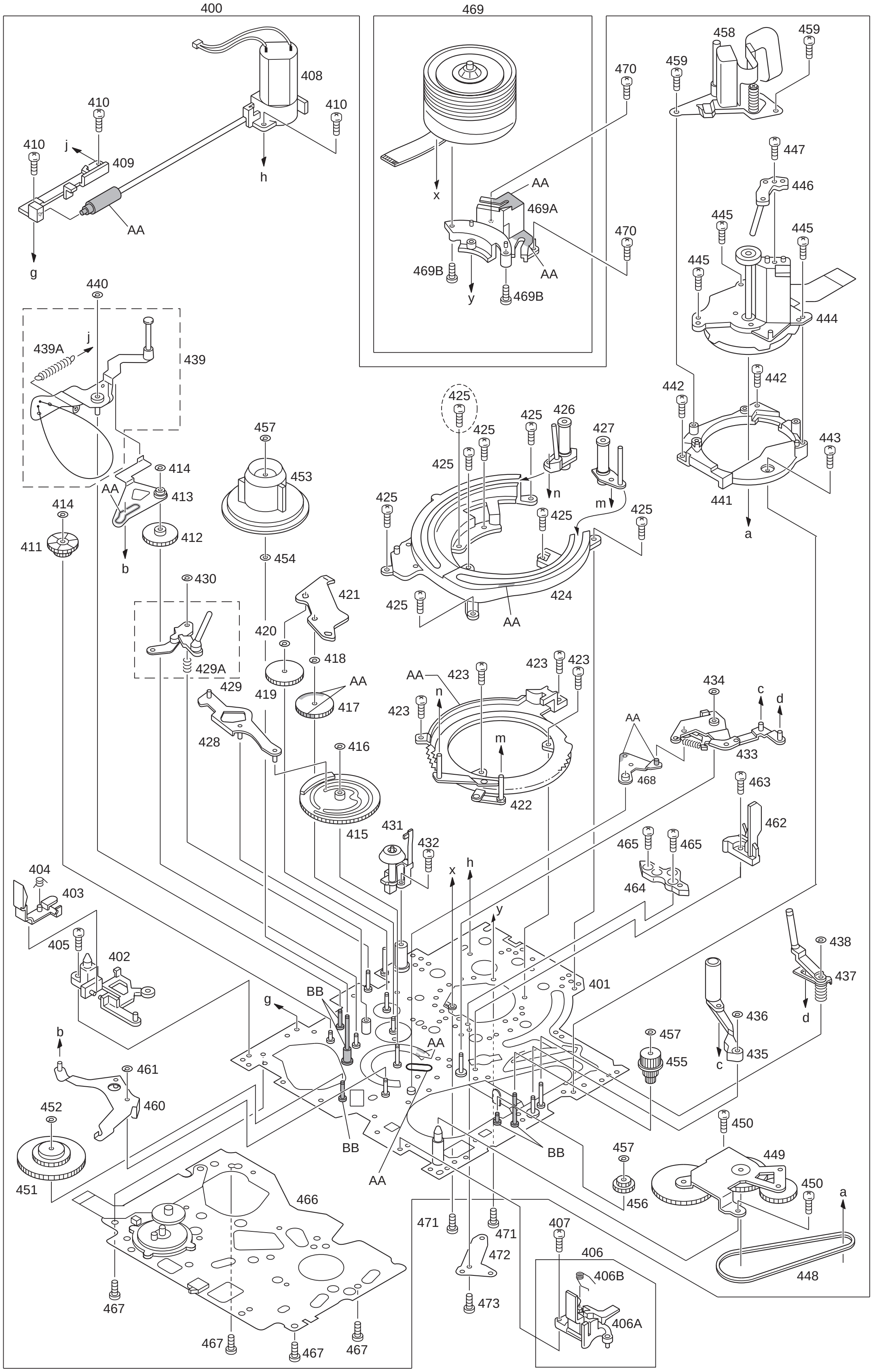
Part Name	Symbol No.	Part No.	Part No.	Part No.	Symbol No.	Part No.	Patr No.
MECHA(A) ASSY	400	YMA0029C	YMA0029M	YMA0029L	900	YMA0029H	YMA0029E
MECHA(A)ASSY	-	-	-	-	900A	YMA0029D	-
CASSETTE HOUSING ASSY	401	LY31543-002E*	LY31543-002H	←	901	LY32870-001G*	LY32870-001J
MINI SCREW,X3	402	YQ43893-8	←	←	902	←	←
UPPER BASE ASSY	403	LY31542-001J	←	←	903	LYH30420-001A	←
MINI SCREW	404	YQ43893*	QYSPSPU1425M	←	904	←	←
DRUM ASSY	405	**	**	**	905	**	**
DAMP.SCREW ASSY,X2	406	LY42820-001A	←	←	906	←	←
DAMP.SCREW ASSY	407	LY42820-002A	←	←	907	←	←
REEL DISK ASSY (SUP)	408	LY31538-001B*	LY31538-001F	←	908	←	←
REEL DISK ASSY (TU)	409	LY31538-002B*	LY31538-002H	LY31538-002G	909	LY31538-002H	←
SLIT WASHER,X2 or X1	410	YQ44246,(x2)	←,(x2)	←,(x2)	910	←*,(x1)	←,(x2)
REEL COVER ASSY	411	LY10217-001A*	LY10217-001F	←	911	LY10372-001D	←
MINI SCREW	412	LY42120-001A*	LY42120-002A	←	912	←	←
MINI SCREW,X2	413	LY41945-003A	←	←	913	←	←
SLIT WASHER	414	YQ44246	←	←	914	←	←
TENSION ARM ASSY	415	LY42025-001C	←	←	915	LY43725-001D	←
SLANT POLE ARM ASSY	416	LY31535-001F	←	←	916	LYH40269-001A	←
TU ARM ASSY	417	LY42031-001G*	LY42031-001K	←	917	LY43731-001F	←
SWING ARM ASSY	418	LY31531-001D	←	←	918	←	←
MINI SCREW	419	YQ43893	←	←	919	←	←
SLIDE DECK FINAL ASSY	420	LY20530-003B*	LY20530-003E	←	920	LYH30424-001A	←

Part Name	Symbol No.	Part No.	Part No.	Part No.	Symbol No.	Part No.	Patr No.
MINI SCREW,X2	421	YQ43893	←	←	921	←	←
MINI SCREW	422	LY43023-001A	←	←	922	←	←
PAD ARM ASSY	424	LY31533-001E	←	←	924	LYH30419-001A	←
SLIT WASHER	425	YQ44246	←	←	925	←	←
TU BRAKE ASSY	428	LY42016-001B	←	←	928	LYH40270-001A	←
SLIT WASHER	429	YQ44246	←	←	929	←	←
TENSION CONTROL LEVER ASSY	430	LY41959-001B	←	←	930	LY43684-001A	←
CENTER GEAR	431	LY31525-001B	←	←	931	LY32861-001A	←
PINCH ROLLER ARM FINAL ASSY	432	LY31516-001E	←	LY31516-001F	932	←	←
SLIT WASHER	433	YQ44246	←	←	933	←	←
TENSION CONTROL PLATE ASSY	434	LY41956-001C	←	←	934	LY43681-001A	←
BRAKE CONTROL LEVER ASSY	435	LY41962-001B*	LY41962-001C	←	935	LY43687-001A	←
MOTOR BRACKET ASSY	436	LY20525-002C	←	←	936	LYH30421-001A	←
LOADING MOTOR	436A	QAR0138-001	←	←	936A	←	←
TAPPING SCREW,x2	436B	LY41940-001A	←	←	936B	←	←
MINI SCREW,x3	437	YQ43893	←	←	937	←	←
GUIDE RAIL ASSY	438	LY20528-001R*	LY20528-001U	←	938	LYH30422-001A	←
MINI SCREW	439	YQ43893	←	←	939	←	←
SLIT WASHER,X2	440	YQ44246	←	←	940	←	←
SLIDE LEVER2 ASSY	441	LY31498-001C	←	LY31498-001D	941	LY32843-001A	←
LOADING PLATE ASSY	442	LY41965-001A	←	←	942	LY43690-001A	←
SLIT WASHER	443	YQ44246	←	←	943	←	←
EJECT LEVER	444	LY31522-001B	←	←	944	LY32858-001A	←
SLIT WASHER	445	YQ44246	←	←	945	←	←
BASE R ASSY	446	LY41929-001E*	LY41929-001F	←	946	LYH40271-001A	←
MINI SCREW	447	YQ43893	←	←	947	←	←
MINI SCREW	448	LY41945-001B	←	←	948	←	←
MODE GEAR	449	LY41930-001A	←	←	949	LY43665-001A	←
ROTARY ENCODER	450	QSW0876-003	←	←	950	←	←
MINI SCREW,X2	451	YQ43893	←	←	951	←	←
GEAR COVER ASSY	452	LY31524-001A	←	←	952	LY32860-001A	←
MINI SCREW,X2	453	YQ43893	←	←	953	←	←
MINI SCREW	454	YQ43893-4	←	←	954	←	←
MAIN CAM ASSY	455	LY41948-001C	←	←	955	LY43676-001A	←
SLIDE ARM ASSY	456	LY41941-001B	←	←	956	←	←
CONNECT GEAR 2	457	LY41951-001B	←	←	957	LY43678-001A	←
SUB CAM ASSY	458	LY41954-001B	←	LY41954-001E	958	←	←
MINI SCREW	459	LY42120-001A	←	←	959	←	←
CONTROL ARM ASSY	460	LY41952-001A	←	←	960	LY43692-001A	←
REEL GEAR 1	461	LY31523-001B	←	←	961	LY32859-001A	←
DRUM BASE ASSY	462	LY31508-002A*	LY31508-002B	LY33372-001A	962	LY31508-002B	←
SCREW,X3	463	QYSPSPU1425M	←	←	963	←	←
CAPSTAN MOTOR	464	QAR0142-001	←	←	964	←	←
MINI SCREW	465	YQ43893	←	←	965	←	←
MAIN DECK ASSY	466	LY10210-001D*	LY10210-001G	←	966	LY10367-001D*	LY10367-001E
SLIT WASHER	476	YQ44246	←	←	976	←	←
SLIT WASHER	477	-	-	-	977	YQ44246-6	-
WASHER	478	-	-	-	978	LY42047-005A	←
SPACER	479	-*	LY43987-001B	←	979	←	←

NOTE:

MARK ← is same as left.
MARK - is not used.
MARK * reference model was also changed.
MARK ** shows different parts number, depending on models.

3.2 VHS-C MECHANISM ASSEMBLY


400
469
408
410
410
410
j
409
h
AA
g
470
x
AA
469A
470
469B
y
469B
AA
458
459
459
447
446
445
445
445
444
440
439A
j
439
442
442
443
441
a
425
426
425
425
427
457
453
414
AA
413
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405
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g
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452
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450
457
449
450
a
456
466
471
471
407
406
406B
472
448
473
406A
467
467
467
467

Classification	Part No.	Symbol in drawing
Grease	KYODO-SH-JB	AA
Oil	YTU94027	BB

NOTE: The section marked in **AA** and **BB** indicate lubrication and greasing areas.

Fig.3-2-1

3.2.1 VHS-C MECHANISM ASSEMBLY PARTS LIST

- Since parts numbers described here are the numbers at the time of manualissue, they are subject to change without notice. Therefore, be sure to see a parts list in the service manual of each model as for parts numbers.

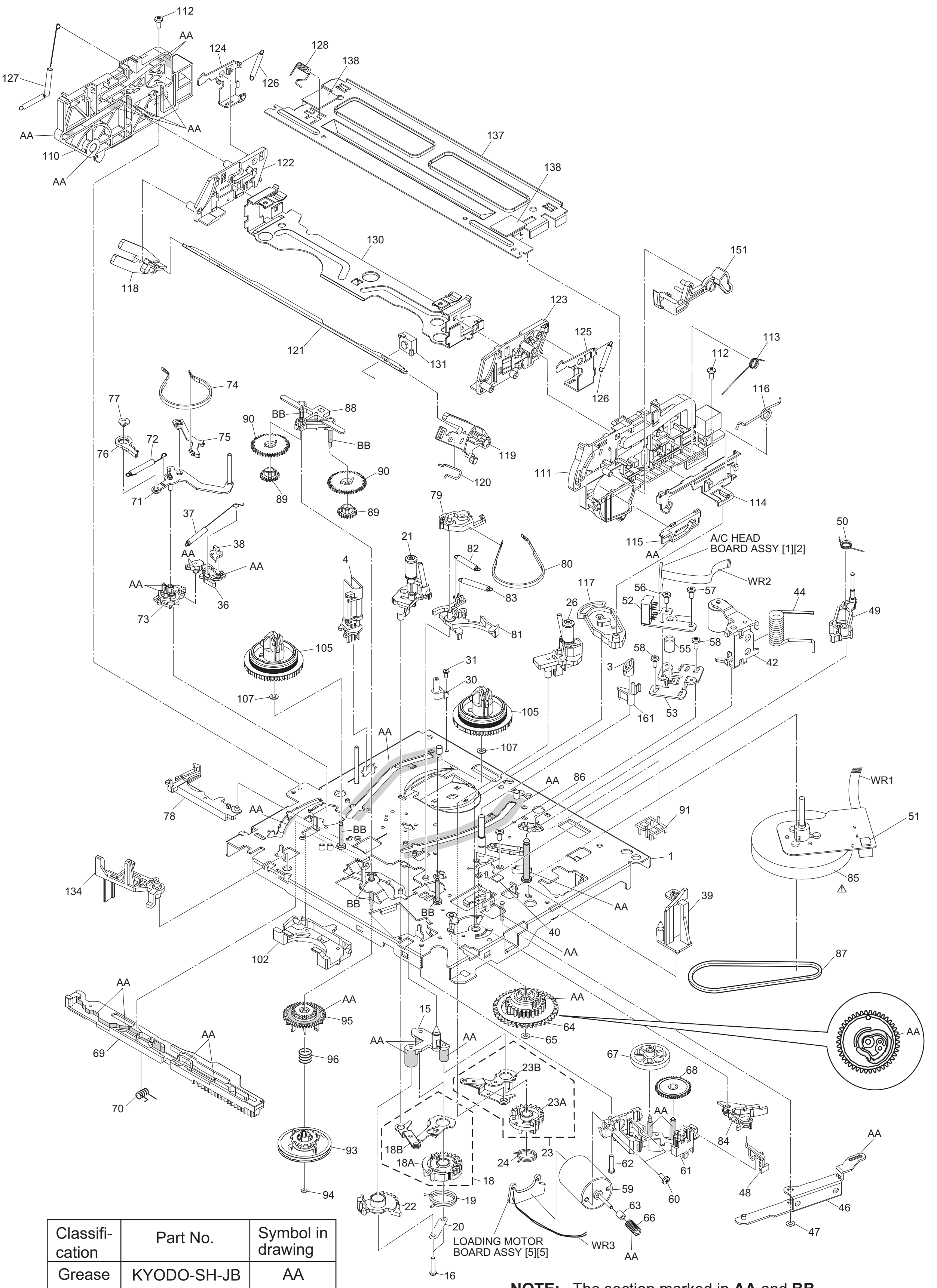
Part Name	Symbol No.	Part No.	Part No.	Part No.	Part No.	Part No.
MECHA(B) ASSY	400	YMA0033A-E	YMA0042A-E	YMA0034A-E	YMA0036A-E	YMA0040A-E
MAIN DECK ASSY	401	LY20612-001B	←	←	←	←
CASSETTE GUIDE (LEFT)	402	LY31817-001A	←	←	←	←
SW LEVER (LEFT)	403	LY31815-001A	←	←	←	←
TORSION SPRING	404	LY42581-001A	←	←	←	←
SCREW	405	LY42722-001A	←	←	←	←
CASSETTE GUIDE ASSY(RIGHT)	406	-	-	YQ44339A-7	←	←
SW.LEVER(RIGHT)	406A	-	-	YQ32162-1-3	←	←
TORSION SPRING	406B	-	-	YQ44340-1-4	←	←
SCREW	407	-	-	LY42819-001A	←	←
MOTOR BRACKET ASSY	408	LY31826-001A	←	←	←	←
WORM BRACKET	409	YQ20793	LY20951-001A	YQ20793	←	LY20951-001A
SCREW,X3	410	LY42722-001A	←	←	←	←
WHEEL GEAR	411	LY31925-001A	←	←	←	←
MIDDLE GEAR	412	LY42730-001A	←	←	←	←
CANCEL LEVER ASSY	413	LY42521-001A	←	←	←	←
SLIT WASHER,X2	414	LY42754-003A	←	←	←	←
CONTROL CAM	415	YQ20827-2-1	←	←	←	←
SLIT WASHER	416	PQM30017-25	←	←	←	←
LOADING GEAR(T)ASSY	417	LY42733-001A	←	←	←	←
SLIT WASHER	418	LY42754-003A	←	←	←	←
LOADING GEAR(S)ASSY	419	LY42732-001A	←	←	←	←
SLIT WASHER	420	LY42754-003A	←	←	←	←
COVER PLATE	421	LY42403-001A	←	←	←	←
LOADING RING ASSY	422	LY42452-001A	←	←	←	←
SCREW,X4	423	LY42728-001A	←	←	←	←
GUIDE RAIL	424	LY10239-001A	←	←	←	←
SCREW,X8 or X7	425	LY42728-001A,(X8)	←,(X7)	←,(X8)	←,(X8)	←,(X7)
POLE BASE(S)ASSY	426	LY30161-001B	←	←	←	←
POLE BASE(T)ASSY	427	LY30162-002A	←	←	←	←
DRIVE LEVER ASSY	428	LY42523-001A	←	←	←	←
SLANT ARM ASSY	429	LY42545-001B	LY44000-001B	LY42545-001B	←	LY44000-001B
TORSION SPRING(S)	429A	LY42547-001A	LY43992-001A	LY42547-001A	←	LY43992-001A
SLIT WASHER	430	LY42754-003A	←	←	←	←
ROLLER BASE ASSY	431	LY42739-003A	←	←	←	←
SCREW	432	LY42722-001A	←	←	←	←
LINK ARM ASSY	433	LY42494-001A	←	←	←	←
SLIT WASHER	434	PQM30017-25	←	←	←	←
PINCH ROLLER ARM ASSY	435	LY40018-002A	←	←	LY40018-005A	←
SLIT WASHER	436	PQM30017-25	←	←	←	←
TAKE UP GUIDE ARM ASSY	437	LY42541-001B	←	←	←	←
SLIT WASHER	438	LY42754-003A	←	←	←	←
TENSION ARM ASSY	439	LY42571-001A	←	←	←	←
TENSION SPRING	439A	LY42669-001A	←	←	←	←
SLIT WASHER	440	LY42754-003A	←	←	←	←
MOTOR BASE	441	YQ20797-1-5	←	←	←	←
SCREW,X2	442	LY42722-001A	←	←	←	←
SCREW	443	YQ44460	←	←	←	←
CAPSTAN MOTOR	444	QAR0212-001	QAR0212-002	QAR0212-001	QAR0212-002	←
TAPPING SCREW,X3	445	YQ44304	←	←	←	←
SLANT POLE BASE ASSY	446	LY42731-001A	←	←	←	←
TAPPING SCREW	447	YQ44304	←	←	←	←
TIMING BELT	448	YQ43710-2	←	←	←	←
CENTER PULLEY UNIT	449	LY42678-001A	←	←	←	LY42678-003A

Part Name	Symbol No.	Part No.	Part No.	Part No.	Part No.	Part No.
SCREW,X2	450	LY42722-002A	←	←	←	←
SUPPLY CLUTCH ASSY	451	LY42670-001A	←	←	←	←
SLIT WASHER	452	LY42754-003A	←	←	←	←
REEL DISC	453	YQ31861-1-7	←	←	←	←
WASHER	454	LY42755-001A	←	←	←	←
TAKE UP GEAR	455	LY31924-001A	←	←	←	←
BRAKE SUB GEAR	456	LY42738-001A	←	←	←	←
SLIT WASHER,X3	457	LY42754-003A	←	←	←	←
A/C HEAD UNIT	458	LY42544-001B	LY42544-002A	LY42544-001B	←	LY42544-002A
SCREW,X2	459	SPSN1750Z	←	←	←	←
EJECT LEVER ASSY	460	LY42517-001A	←	←	←	←
SLIT WASHER	461	LY42754-003A	←	←	←	←
LED GUIDE	462	YQ31833-1-1	←	←	←	←
SCREW	463	LY42722-001A	←	←	←	←
DRUM SPACER	464	LY42729-001A	←	←	←	←
SCREW,X2	465	LY42722-001A	←	←	←	←
ROTARY ENCODER	466	QSW0888-001	←	QSW0888-002	←	←
SCREW,X4	467	LY42722-002A	←	←	←	←
LINK LEVER	468	LY31814-001A	←	←	←	←
DRUM FINAL ASSY	469	**	**	**	**	**
CATCHER	469A	YDM1003-1-5	←	←	←	←
SCREW,X2	469B	QYSPSPU1735M	←	←	←	←
SCREW,X2	470	LY42722-001A	←	←	←	←
SCREW,X2	471	SPSH1740Z	←	←	←	←
BRUSH	472	LY43542-001A	←	←	←	←
SCREW	473	LY42722-003A	←	←	←	←
CASSETTE HOUSING FINAL ASSY	*155/481	LY31808-001C	LY31808-002C	LY31808-001C	LY31808-001D	LY31808-002C
SCREW,X4	*156/482	LY42722-003A	←	←	←	←
BRACKET(MECHA)	*161/484	LY32326-001A	←	←	←	←
SCREW,X2	*162/485	LY42722-003A	←	←	←	←
SIDE BRACKET L	*164/487	LY31807-001A	←	←	←	←
SCREW	*165/488	LY42722-003A	←	←	←	←

NOTE:

MARK ← is same as left.
MARK - is not used.
MARK * are shown in the parts list of FINAL ASSY of service manual of each model.
MARK ** shows different parts number, depending on models.

3.3 VHS MECHANISM ASSEMBLY


112
AA
124
128
138
127
126
AA
AA
110
AA
137
122
138
130
151
118
123
125
113
121
131
112
126
116
74
77
88
BB
90
72
75
BB
76
90
119
111
71
89
120
89
114
79
37
50
38
115
AA
A/C HEAD
BOARD ASSY [1][2]
AA
21
AA
4
82
80
WR2
36
AA
73
117
56
57
44
26
52
83
49
81
58
55
58
105
31
3
42
30
107
53
161
105
107
AA
AA
86
WR1
91
78
AA
BB
51
1
134
BB
BB
39
AA
85
40
AA
102
87
AA
AA
AA
95
AA
15
64
AA
65
AA
AA
AA
69
96
67
23B
68
23A
70
AA
AA
84
93
18B
24
23
18A
62
61
18
60
48
94
19
59
63
22
66
46
20
LOADING MOTOR
BOARD ASSY [5][5]
WR3
47
AA
16

Classifi-cation	Part No.	Symbol in drawing
Grease	KYODO-SH-JB	AA
Oil	COSMO-HV56	BB

NOTE: The section marked in **AA** and **BB** indicate lubrication and greasing areas.

Fig.3-3-1

3.3.1 VHS MECHANISM ASSEMBLY PARTS LIST

- Since parts numbers described here are the numbers at the time of manualissue, they are subject to change without notice. Therefore, be sure to see a parts list in the service manual of each model as for parts numbers.

System		VHS		S-VHS	
**Job No.		V15D Series	V16D Series	V15S Series	V16S Series
Part Name	Symbol No.	Part No.	Part No.	Part No.	Part No.
MAIN DECK ASSY	1	LP21039-001N	LP21039-001S	LP21039-001R	LP21039-001S
GUIDE POLE CAP	3	LP40097-002D	←	←	←
FULL ERASE HEAD	4	QAH0082-001	←	←	←
LOAD.GEAR BASE	15	LP30958-001B	←	←	←
SCREW,X2	16	QYTPST2620Z	←	←	←
LORD.GEAR(SUPPLY) ASSY	18	LP40798-001A	←	←	←
LORD.GEAR(SUPPLY)	18A	LP21040-001A	←	←	←
LORD.ARM(SUPPLY) ASSY	18B	LP40799-001A	←	←	←
TORSION SPRING(SUPPLY)	19	LP40837-001A	←	←	←
FIXING PLATE	20	LP40903-001A	←	←	←
POLE BASE ASSY(SUPPLY)	21	LP40806-001D	←	←	←
LOAD GEAR	22	LP30959-002A	←	←	←
LORD. GEAR(TAKE UP) ASSY	23	LP40802-001B	LP40802-001C	LP40802-001B	LP40802-001C
LORD. GEAR(TAKE UP)	23A	LP21041-001B	LP21041-001C	LP21041-001B	LP21041-001C
LORD.ARM(TAKE UP) ASSY	23B	LP40803-001A	←	←	←
TORSION SPRING(TAKE UP)	24	LP40838-001A	←	←	←
POLE BASE ASSY(TAKE UP)	26	LP40808-001F	LP40808-001E	←	←
ARM BASE	30	-	←	LP31020-004A	←
SCREW	31	-	←	QYTDST2606Z	-
TU LEVER	36	LP21055-001E	←	←	←
TENSION SPRING	37	LP40943-001A	←	←	←
T-UP HEAD	38	LP40859-001D	←	←	←
LID GUIDE	39	LP30961-001C	←	←	←
SPACER	40	LP30002-0B7A	←	←	-
PINCH ROLLER ARM ASSY	42	LP40810-001A	←	←	←
TORSION SPRING	44	LP40840-001C	LP40840-001D	←	←
PRESS LEVER	46	LP30963-001B	←	←	←
SLIT WASHER	47	PQM30017-24	←	←	←
S-SWITCH	48	-	←	LP40930-002E	←
GIDE ARM ASSY	49	LP40813-001D	←	←	←
TORSION SPRING	50	LP40841-001A	←	←	←
SPACER	51	LP30002-090A	←	←	-
A/C HEAD	52	QAH0081-001	←	←	←
HEAD BASE	53	LP30965-001A	←	←	←
COMPRESSION SPRING	55	LP40842-001A	LP40842-001D	LP40842-001A	LP40842-001D
SCREWX1 A/C HEAD	*56	QYTDST2006M	←	←	←
A/C HEAD SCREW,X2	*57	LP41036-001A	←	←	←
SCREW,X2 A/C HEAD	*58	QYTDST2606Z	←	←	←
LOADING MOTOR	59	QAR0023-001	←	←	←
SCREW,X2	60	QYTPSP3003Z	←	←	←
MOTOR BRACKET	61	LP21056-002F	LP21056-002G	←	←
TAP SCREW	62	QYTPST2620Z	←	←	←
WORM BEARING	63	LP40814-001B	←	←	←
CONTROL CAM	64	LP21044-001D	←	←	←
SLIT WASHER	65	PQM30017-24	←	←	←
WORM GEAR	66	LP40815-001A	←	←	←
HELICAL GEAR	67	LP40816-001B	←	←	←
CONNECT GEAR	68	LP40817-001A	←	←	←

System		VHS		S-VHS	
**Job No.		V15D Series	V16D Series	V15S Series	V16S Series
Part Name	Symbol No.	Part No.	Part No.	Part No.	Part No.
CONTROL PLATE	69	LP10400-001H	←	←	LP10400-001J
TORTION SPRING	70	LP40843-001A	←	←	←
TENSION ARM ASSY	71	LP40818-001B	←	←	←
TENSION SPRING	72	LP40844-001C	LP40844-001E	LP40844-001D	LP40844-001E
TENSION ARM BASE	73	LP21045-001D	←	←	←
TENSION BAND ASSY	74	LP40821-001A	←	←	←
BAND HOLDER-1	75	LP30967-001B	←	←	←
BAND HOLDER-2	76	LP30968-001C	←	←	←
ADJUST PIN	77	LP40822-002B	←	←	←
TENSION ARM LEVER	78	LP31000-005E	←	←	←
MAIN BRAKE(TAKE UP)	79	LP21046-001C	←	←	←
BAND BRAKE ASSY	80	LP40824-001A	←	←	←
BRAKE LEVER	81	LP30969-002A	LP30969-002B	LP30969-002A	LP30969-002B
TENSION SPRING	82	LP30003-033B	←	←	←
TENSION SPRING	83	LP30003-035B	←	←	←
CAPSTAN BRAKE ASSY	84	LP40825-001B	←	←	←
CAPSTAN MOTOR	85	QAR0204-002	←	←	←
SCREW,X3 CAPSTAN MOTOR	86	QYTPSG2606M	QYTPSG2606Z	QYTPSG2606M	QYTPSG2606Z
BELTCAPSTAN MOTOR	87	LP30005-010A	←	←	←
IDLER ARM	88	LP30970-001A	←	←	←
IDLER GEAR 1,X2	89	LP40828-004A	←	←	←
IDLER GEAR 2,X2	90	LP40829-001B	LP40829-002A	LP40829-001B	LP40829-002A
WIRE HOLDER	91	LP31014-001A	←	←	←
CLUTCH UNIT	93	LP40934-001B	←	←	←
SLIT WASHER	94	PQM30017-47	←	←	←
DIRECT GEAR	95	LP30973-001A	←	←	←
COMPRESS. SPRING	96	LP40939-001A	←	←	←
CHANGE LEVER	102	LP30974-001B	←	←	←
REEL DISK,X2	105	LP21049-001A	←	←	←
SPACER,X2	107	LP30017-004A	←	←	←
SIDE FRAME(L)	110	LP10401-001F	LP10401-001H	LP10401-001F	LP10401-001H
SIDE FRAME(R)	111	LP10402-001F	LP10402-001K	LP10402-001G	LP10402-001K
SCREW,X2	112	QYTDST2606Z	←	←	←
TORSION SPRING	113	LP40917-001C	LP40917-001D	←	←
SIDE PLATE	114	LP30976-001D	LP30976-001E	←	←
LIMIT PLATE	115	LP30977-002D	←	←	←
LIMIT SPRING	116	LP40846-001C	←	←	←
DRIVE LEVER	117	LP31100-001B	←	←	←
DRIVE ARM(L)	118	LP30978-001B	←	←	←
DRIVE ARM(R)	119	LP30979-001H	LP30979-001N	LP30979-001H	LP30979-001N
TORSION SPRING	120	LP40847-001B	←	←	←
CONNECT PLATE	121	LP30980-001A	LP30980-001E	LP30980-001B	LP30980-001E
SIDE HOLDER(L)	122	LP10403-001C	←	←	←
SIDE HOLDER(R)	123	LP10404-001D	LP10404-001E	←	←
LOCK LEVER(L)	124	LP30983-001A	LP30983-001B	LP30983-001A	LP30983-001B
LOCK LEVER(R)	125	LP30984-001A	LP30984-001B	LP30984-001A	LP30984-001B
TENSION SPRING,X2	126	LP40924-001C	LP40924-001D	←	←
EARTH SPRING(1)	127	LP40856-001A	←	LP40856-001B	LP40972-001A
EARTH SPRING(2)	128	LP40857-001B	←	←	←
C.HOLDER ASSY	130	LP30981-001E	LP30981-001G	LP30981-001F	LP30981-001G
C.H STOPPER	131	LP31135-001A	-	LP31135-001A	-

System		VHS		S-VHS	
**Job No.		V15D Series	V16D Series	V15S Series	V16S Series
Part Name	Symbol No.	Part No.	Part No.	Part No.	Part No.
R.SAFETY LEVER	134	LP21051-002C	←	←	←
TOP FRAME	137	LP21052-001F	LP21052-001J	LP21052-001H	LP21052-001J
SPACER	138	LP30002-0A7A	-	LP30002-0A7A	-
DOOR OPENER	151	LP30985-001G	←	←	←
TAPE GUIDE	161	-	LP40993-001A	-	LP40993-001A
E-CARD WIRE DRUM.M	WR1	WJT0059-001C	WJT0059-001E	WJT0059-001D	WJT0059-001E
E-CARD WIRE AC HEAD CN2001	WR2	WJT0067-001B	←	←	←
E-FL/RB WIRE LOADING MOTOR	WR3	WJS0022-001A	←	←	←
MEMO	-	PMD0035B-C	PMD0040A-C	PMD0036B-C /PMD0039A-C	PMD0037A-C /PMD0041A-C

NOTE:

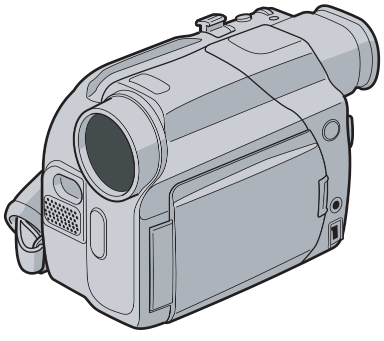
MARK ← is same as left.
MARK - is not used.
MARK * shows that Symbol No. and Parts No. may sometimes be different from those in each manual. See the table below for final Symbol No. and Parts No.
MARK ** is Job No.
To identify a model, see the Job No. of the model.
Job No. is shown just above the service manual number at the lower right of the service manual of each model.

JVC

SERVICE MANUAL

DIGITAL VIDEO CAMERA

GR-D33US, GR-D73US



GR-D33US [M4D1S3], GR-D73US [M4D1S7]

For disassembling and assembling of MECHANISM ASSEMBLY, refer to the SERVICE MANUAL No.86700 (MECHANISM ASSEMBLY).

NOTE :

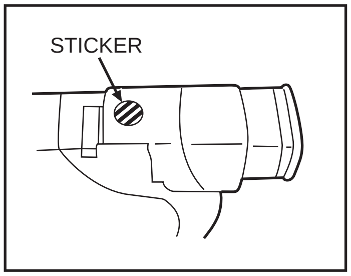
There are two types of VF(COLOR) ASSEMBLY used for this model: S type and K type.
Prior to repair operation related to VIEW FINDER, be sure to see the VF(COLOR) ASSEMBLY and Parts List.
Methods to distinguish the two types are as follows:

1. Distinction based on EEPROM DATA (EEPROM utility). (*1)
2. Distinction based on a part number of the MONI-C BOARD ASSEMBLY.
3. Distinction based on a sticker attached to the VF(COLOR) ASSEMBLY.

	S TYPE	K TYPE
EEPROM DATA (*1)	ADRS 3CCH:01H	ADRS 3CCH:05H
MONI-C PWB	YB10447 SERIES	YB10453 SERIES
VF(COLOR) ASSY	NO STICKER	STICKER ON TOP FACE

(*1) It is necessary to confirm the original data (before repair work) of EEPROM.

VF(COLOR) ASSEMBLY



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4 ADJUSTMENT 1-16
5 TROUBLESHOOTING 1-19

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No.YF005
2004/1

SPECIFICATION

Camcorder

For General

Power supply
DC 11.0 V (Using AC Adapter)
DC 7.2 V (Using battery pack)
Power consumption
Approx. 3.3 W (GR-D73/33), Approx. 3.5 W (GR-D93) (LCD monitor off, viewfinder on)
Approx. 4.6 W (GR-D73/33), Approx. 4.8 W (GR-D93) (LCD monitor on, viewfinder off)
Approx. 8.6 W (Maximum)
Dimensions (W x H x D)
71 mm x 91 mm x 118 mm
(2-13/16" x 3-5/8" x 4-11/16") (with the LCD monitor closed and the viewfinder pushed back in)
Weight
Approx. 500 g (1.1 lbs)
(without cassette and battery)
Approx. 590 g (1.3 lbs)
(incl. cassette and battery)
Operating temperature
0°C to 40°C (32°F to 104°F)
Operating humidity
35% to 80%
Storage temperature
–20°C to 50°C (–4°F to 122°F)
Pickup
1/6" CCD (GR-D73/33), 1/4" CCD (GR-D93)
Lens
F 1.6, f = 2.7 mm to 43.2 mm, 16:1 power zoom lens (GR-D73/33), F 1.8, f = 3.8 mm to 38.0 mm, 10:1 power zoom lens (GR-D93)
Filter diameter
ø30.5 mm
LCD monitor
2.37" diagonally measured, LCD panel/TFT active matrix system
Viewfinder
Electronic viewfinder with 0.24" color LCD
Speaker
Monaural
White LED Light
Effective distance: 1.5 m

For Digital Video Camera

Format
DV format (SD mode)
Signal format
NTSC standard
Recording/Playback format
Video: Digital component recording
Audio: PCM digital recording, 32 kHz 4-channel (12-bit), 48 kHz 2-channel (16-bit)
Cassette
Mini DV cassette
Tape speed
SP: 18.8 mm/s, LP: 12.5 mm/s
Maximum recording time (using 80 min. cassette)
SP: 80 min., LP: 120 min.

For Digital Still Camera (GR-D93/73 only)

Storage media
SD Memory Card/MultiMediaCard
Compression system
Still image: JPEG (compatible)
File size
Still image:
2 modes (1024 x 768 pixels/640 x 480 pixels) (GR-D73)
4 modes (1600 x 1200 pixels/1280 x 960 pixels/
1024 x 768 pixels/640 x 480 pixels) (GR-D93)
Picture quality
2 modes (FINE/STANDARD)
Approximate number of storable images
☞ pg. 18

For Connectors

S
S-Video input (GR-D93/73 only):
Y: 0.8 V to 1.2 V (p-p), 75 Ω, analog
C: 0.2 V to 0.4 V (p-p), 75 Ω, analog
S-Video output:
Y: 1.0 V (p-p), 75 Ω, analog
C: 0.29 V (p-p), 75 Ω, analog
AV
Video input (GR-D93/73 only): 0.8 V to 1.2 V (p-p), 75 Ω, analog
Video output: 1.0 V (p-p), 75 Ω, analog
Audio input (GR-D93/73 only): 300 mV (rms), 50 kΩ, analog, stereo
Audio output: 300 mV (rms), 1 kΩ, analog, stereo
DV
Input/output: 4-pin, IEEE 1394 compliant
USB (GR-D93/73 only)
5-pin

AC Adapter

Power requirement
AC 110 V to 240 V∿, 50 Hz/60 Hz
Output
DC 11 V ⎓, 1 A

Specifications shown are for SP mode unless otherwise indicated. E & O.E. Design and specifications subject to change without notice.

SECTION 1
PRECAUTION

1.1 SAFTY PRECAUTIONS

Prior to shipment from the factory, JVC products are strictly inspected to conform with the recognized product safety and electrical codes of the countries in which they are to be sold.However,in order to maintain such compliance, it is equally important to implement the following precautions when a set is being serviced.

1.1.1 Precautions during Servicing

(1) Locations requiring special caution are denoted by labels and inscriptions on the cabinet, chassis and certain parts of the product.When performing service, be sure to read and comply with these and other cautionary notices appearing in the operation and service manuals.

(2) Parts identified by the ⚠symbol and shaded (▨) parts are critical for safety.
Replace only with specified part numbers.

NOTE :

Parts in this category also include those specified to comply with X-ray emission standards for products using cathode ray tubes and those specified for compliance with various regulations regarding spurious radiation emission.

(3) Fuse replacement caution notice.
Caution for continued protection against fire hazard.
Replace only with same type and rated fuse(s) as specified.

(4) Use specified internal wiring. Note especially:
- Wires covered with PVC tubing
- Double insulated wires
- High voltage leads

(5) Use specified insulating materials for hazardous live parts. Note especially:
- Insulation Tape
- PVC tubing
- Spacers
- Insulation sheets for transistors
- Barrier

(6) When replacing AC primary side components (transformers, power cords, noise blocking capacitors, etc.) wrap ends of wires securely about the terminals before soldering.

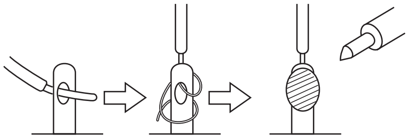


Fig.1-1-1

(7) Observe that wires do not contact heat producing parts (heatsinks, oxide metal film resistors, fusible resistors, etc.)

(8) Check that replaced wires do not contact sharp edged or pointed parts.

(9) When a power cord has been replaced, check that 10-15 kg of force in any direction will not loosen it.

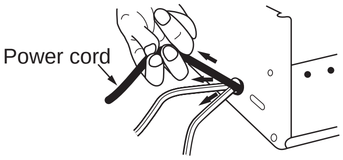


Fig.1-1-2

(10) Also check areas surrounding repaired locations.

(11) Products using cathode ray tubes (CRTs)In regard to such products, the cathode ray tubes themselves, the high voltage circuits, and related circuits are specified for compliance with recognized codes pertaining to X-ray emission. Consequently, when servicing these products, replace the cathode ray tubes and other parts with only the specified parts. Under no circumstances attempt to modify these circuits.Unauthorized modification can increase the high voltage value and cause X-ray emission from the cathode ray tube.

(12) Crimp type wire connectorIn such cases as when replacing the power transformer in sets where the connections between the power cord and power trans former primary lead wires are performed using crimp type connectors, if replacing the connectors is unavoidable, in order to prevent safety hazards, perform carefully and precisely according to the following steps.
- **Connector part number** :E03830-001
- **Required tool** : Connector crimping tool of the proper type which will not damage insulated parts.
- **Replacement procedure**
  - a) Remove the old connector by cutting the wires at a point close to the connector.Important : Do not reuse a connector (discard it).

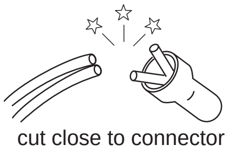


Fig.1-1-3

b) Strip about 15 mm of the insulation from the ends of the wires. If the wires are stranded, twist the strands to avoid frayed conductors.

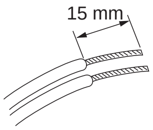


Fig.1-1-4

c) Align the lengths of the wires to be connected. Insert the wires fully into the connector.

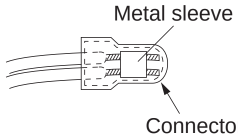


Fig.1-1-5

d) As shown in Fig.1-1-6, use the crimping tool to crimp the metal sleeve at the center position. Be sure to crimp fully to the complete closure of the tool.

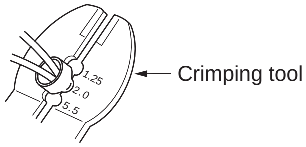


Fig.1-1-6

e) Check the four points noted in Fig.1-1-7.

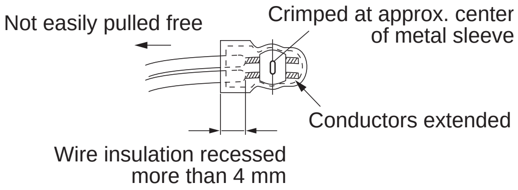

Not easily pulled free
Crimped at approx. center of metal sleeve
Conductors extended
Wire insulation recessed more than 4 mm

Fig.1-1-7

1.1.2 Safety Check after Servicing

Examine the area surrounding the repaired location for damage or deterioration. Observe that screws, parts and wires have been returned to original positions, Afterwards, perform the following tests and confirm the specified values in order to verify compliance with safety standards.

(1) Insulation resistance test
Confirm the specified insulation resistance or greater between power cord plug prongs and externally exposed parts of the set (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.).See table 1 below.

(2) Dielectric strength test
Confirm specified dielectric strength or greater between power cord plug prongs and exposed accessible parts of the set (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.). See Fig.1-1-11 below.

(3) Clearance distance
When replacing primary circuit components, confirm specified clearance distance (d), (d') between soldered terminals, and between terminals and surrounding metallic parts. See Fig.1-1-11 below.

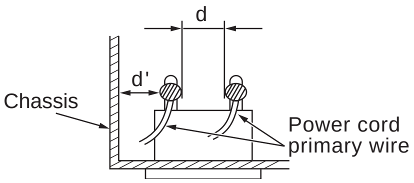


Fig.1-1-8

(4) Leakage current test
Confirm specified or lower leakage current between earth ground/power cord plug prongs and externally exposed accessible parts (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.).
Measuring Method : (Power ON)Insert load Z between earth ground/power cord plug prongs and externally exposed accessible parts. Use an AC voltmeter to measure across both terminals of load Z. See Fig.1-1-9 and following Fig.1-1-12.

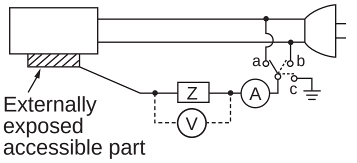
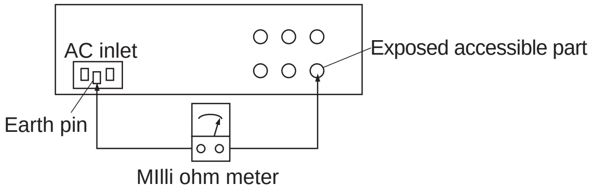


Fig.1-1-9

(5) Grounding (Class 1 model only)
Confirm specified or lower grounding impedance between earth pin in AC inlet and externally exposed accessible parts (Video in, Video out, Audio in, Audio out or Fixing screw etc.).Measuring Method:
Connect milli ohm meter between earth pin in AC inlet and exposed accessible parts. See Fig.1-1-10 and grounding specifications.



Grounding Specifications

Region	Grounding Impedance (Z)
USA & Canada	Z ≦ 0.1 ohm
Europe & Australia	Z ≦ 0.5 ohm

Fig.1-1-10

AC Line Voltage	Region	Insulation Resistance (R)	Dielectric Strength	Clearance Distance (d), (d')
100 V	Japan	R ≧ 1 MΩ/500 V DC	AC 1 kV 1 minute	d, d' ≧ 3 mm
100 to 240 V			AC 1.5 kV 1 minute	d, d' ≧ 4 mm
110 to 130 V	USA & Canada	1 MΩ ≦ R ≦ 12 MΩ/500 V DC	AC 1 kV 1 minute	d, d' ≧ 3.2 mm
110 to 130 V 200 to 240 V	Europe & Australia	R ≧ 10 MΩ/500 V DC	AC 3 kV 1 minute (Class Ⅱ) AC 1.5 kV 1 minute (Class Ⅰ)	d ≧ 4 mm d' ≧ 8 mm (Power cord) d' ≧ 6 mm (Primary wire)

Fig.1-1-11

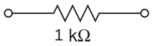
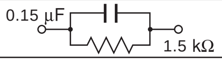
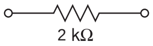
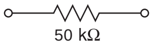
AC Line Voltage	Region	Load Z	Leakage Current (i)	a, b, c
100 V	Japan	 1 kΩ	i ≦ 1 mA rms	Exposed accessible parts
110 to 130 V	USA & Canada	 0.15 µF 1.5 kΩ	i ≦ 0.5 mA rms	Exposed accessible parts
110 to 130 V 220 to 240 V	Europe & Australia	 2 kΩ	i ≦ 0.7 mA peak i ≦ 2 mA dc	Antenna earth terminals
		 50 kΩ	i ≦ 0.7 mA peak i ≦ 2 mA dc	Other terminals

Fig.1-1-12

NOTE :
These tables are unofficial and for reference only. Be sure to confirm the precise values for your particular country and locality.

SECTION 2
SPECIFIC SERVICE INSTRUCTIONS

2.1 DIFFERENCE LIST

The following table indicate main different points between models GR-D33US and GR-D73US.

MODEL	GR-D33US	GR-D73US
ANALOG INPUT	NO	YES
REMOTE CONTROL	NO	RM-V718U
USB CABLE	NO	YES
MEMORY CARD	NO	YEC(MMC 8MB)

SECTION 3
DISASSEMBLY

3.1 BEFORE ASSEMBLY AND DISASSEMBLY

3.1.1 Precautions

- Be sure to disconnect the power supply unit prior to mounting and soldering of parts.
- Prior to removing a component part that needs to disconnect its connector(s) and its screw(s), first disconnect the wire(s) from the connector(s), and then remove the screw(s).
- When connecting/disconnecting wires, pay enough attention not to damage the connectors.
- When inserting the flat wire to the connector, pay attention to the direction of the flat wire.
- Be careful in removing the parts to which some spacer or shield is attached for reinforcement or insulation.
- When replacing chip parts (especially IC parts), first remove the solder completely to prevent peeling of the pattern.
- Tighten screws properly during the procedures. Unless specified otherwise, tighten screws at a torque of 0.118N·m (1.2kgf·cm). However, 0.118N·m (1.2kgf·cm) is a value at the time of production. At the time of service, perform the procedure at a torque 10% less than 0.118N·m (1.2kgf·cm). (See "SERVICE NOTE" as for tightening torque.)

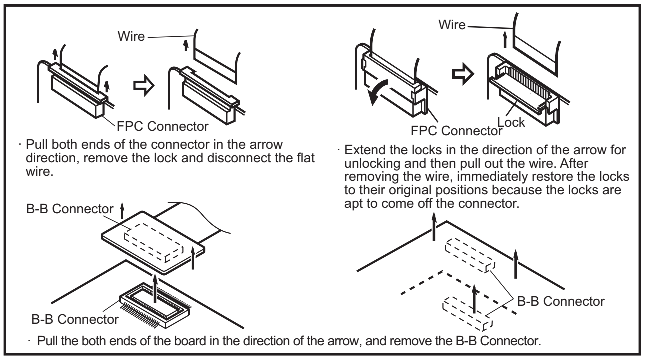
3.1.2 Destination of connectors

Two kinds of double-arrows in connection tables respectively show kinds of connector/wires.

⇔ : Flat wire ↔ : Wire ⬌ : Board to board (B-B)
▨ : The connector of the side to remove

CONN. No.	CONNECTOR					PIN No.
CN2a	MAIN	CN101	⇔	MONI/BW	CN761	40
CN2b	MAIN	CN103	↔	MIC	CN762	2

3.1.3 Disconnection of connectors (Wires)



· Pull both ends of the connector in the arrow direction, remove the lock and disconnect the flat wire.

· Extend the locks in the direction of the arrow for unlocking and then pull out the wire. After removing the wire, immediately restore the locks to their original positions because the locks are apt to come off the connector.

· Pull the both ends of the board in the direction of the arrow, and remove the B-B Connector.

Fig.3-1-1

3.1.4 Tools required for disassembly and assembly

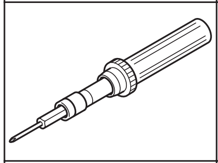
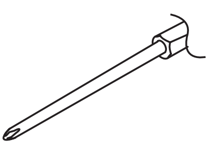
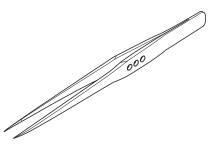
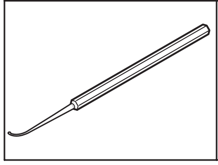
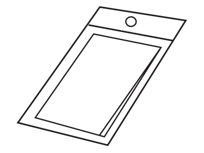
Torque driver YTU94088	Bit YTU94088-003	Tweezers P-895
		
Chip IC replacement jig PTS40844-2	Cleaning cloth KSMM-01	
		

Fig.3-1-2

- **Torque driver**
  Be sure to use to fastening the mechanism and exterior parts because those parts must strictly be controlled for tightening torque.
- **Bit**
  This bit is slightly longer than those set in conventional torque drivers.
- **Tweezers**
  To be used for removing and installing parts and wires.
- **Chip IC replacement jig**
  To be used for replacement of IC.
- **Cleaning cloth**
  Recommended cleaning cloth to wipe down the video heads, mechanism (tape transport system), optical lens surface.

3.2 ASSEMBLY AND DISASSEMBLY OF MAIN PARTS

3.2.1 Assembly and disassembly

When reassembling, perform the step(s) in reverse order.

STEP No.	PART	Fig. No.	POINT	NOTE
[1]	TOP COVER ASSY	Fig.C1	S1,2(L1)	-
[2]	UPPER ASSY (Inc. VF ASSY, SPEAKER/MONITOR)	Fig.C2-1	S2a,2(S2b),3(S2c) 2(S2d),S2e,S2c L2,CN2a,b	-
[8]	VF ASSY	Fig.C2-2	2(S8),L8,CN8a	NOTE 8a NOTE 8b
(∗1)	(∗2)	(∗3)	(∗4)	(∗5)

(∗1) Order of steps in Procedure
When reassembling, preform the step(s) in the reverseorder. These numbers are also used as the identification (location) No. of parts Figures.
(∗2) Part to be removed or installed.
(∗3) Fig. No. showing Procedure or Part Location.
C = CABINET
(∗4) Identification of part to be removed, unhooked, unlocked, released, unplugged, unclamped or unsoldered.
S = Screw
L = Lock, Release, Hook
SD = Solder
CN = Connector

[Example]

- 4 (S1a) = Remove 4 S1a screws.
- 3 (L1a) = Disengage 3 L1a hooks.
- 2 (SD1a) = Unsolder 2 SD1a points.
- CN1a = Remove a CN1a connector.

(∗5) Adjustment information for installation.

3.2.2 ASSEMBLY/DISASSEMBLY OF CABINET PARTS AND ELECTRICAL PARTS

●Disassembly procedure

STEP No.	PART NAME	Fig. No.	POINT	NOTE
[1]	ORNAMENT(TOP)	Fig.C1	2(L1)	-
[2]	COVER(JIG)		(S2)	-
[3]	COVER(UPPER)		(S3a),(S3b),2(L3)	-
[4]	UPPER CASE ASSY (INCLUDE VF(COLOR)ASSY, MONITOR ASSY)	Fig.C2	2(S4a),3(S4b),(S4c),(S4d),(S4a), CN4a,CN4b	NOTE4
[5]	COVER(ZOOM)	Fig.C3	2(S5),(L5)	-
[6]	FRONT COVER ASSY	Fig.C4	(S6),2(L6a),(L6b)	NOTE6
[7]	REAR UNIT ASSY		CN7a,CN7b,(S7),(L7a),(L7b)	NOTE7
[8]	LOWER CASE ASSY	Fig.C5	CN8a,CN8b,CN8c,6(S8),4(L8)	NOTE8
[9]	OP BLOCK ASSY	Fig.C6	CN9a,CN9b,2(S9),(L9a),(L9b)	NOTE9
[10]	MAIN BOARD ASSY	Fig.C7	(S10a),(S10b),2(L10),CN10a,CN10b	NOTE10
[11]	PREMDA BOARD ASSY	Fig.C8	2(S11a),L11,CN11a,b,c,d,e,f,2(S11b)	NOTE11
/[12]	/MECHANISM ASSY		3(S12),BKT(MECHA)ASSY	NOTE12
[13]	VF ASSY	Fig.C9	CN13,(S13a),(S13b),(L13)	NOTE13a,b
[14]	COVER(HINGE)	Fig.C10	(S14a),2(S14b)	-
[15]	MONITOR ASSY	Fig.C11	2(S15a),CN15,2(S15b)	NOTE15a,b
[16]	MONI-C BOARD ASSY	Fig.C12	SD16,2(S16a),2(S16b),2(L16), KNOB(SLIDE)	NOTE16a,b
[17]	SPEAKER	Fig.C13	2(S17a),(S17b),BKT(HINGE), 2(S17a),BKT(SPK)	NOTE17

NOTE4:

Be careful not to cut the FPC.

NOTE6:

Be careful about the engagement of the wire.

NOTE7:

Be careful not to cut the FPC.
Be careful about the engagement of the wire.

NOTE8:

Be careful not to cut the FPC.
Be careful about the engagement of the wire.

NOTE9:

For the disassembly procedure of the OP BLOCK ASSEMBLY, see "3.2.4 ASSEMBLY/DISASSEMBLY OF [9] OP BLOCK ASSMBLY/CCD BOARD ASSEMBLY"

NOTE10:

Be careful not to cut the FPC.

NOTE11:

When removing/attaching the SHIELD COVER, be careful not to damage the FPC.

NOTE12:

When removing/attaching the BRACKET (MECHA) ASSEMBLY, be careful not to damage the FPC.
For the disassembly/assembly procedure of the MECHANISM ASSEMBLY, see the Service Manual "DVC MECHANISM (No.86700)."

NOTE13a:

Remove the SHEET and the screw if necessary.

NOTE13b:

For the disassembly/assembly procedure of the VF ASSEMBLY, see "3.2.5 DISASSEMBLY/ASSEMBLY OF [13] VF ASSEMBLY"

NOTE15a:

Be careful not to cut the FPC.

NOTE15b:

For the disassembly/assembly procedure of the MONITOR ASSEMBLY, see "3.2.3 DISASSEMBLY/ASSEMBLY OF [15] MONITOR ASSEMBLY"

NOTE16a:

Wires for the SPEAKER are soldered, and the BRACKET(SPK) fixes the SPEAKER. Therefore, prior to removing the MONI-C BOARD ASSEMBLY, unsolder the soldered points (SD16) so that the wires moves easily.

NOTE16b:

When attaching the MONI-C BOARD ASSEMBLY, be careful of the position of the KNOB(SLIDE) and the SWITCH of the BOARD.

NOTE17:

Be careful about the engagement of the wire.

●Destination of connectors

CN.NO.	CONNECTOR					PIN NO.
CN4a	MAIN	CN101	⇔	MONI-C	CN7614	40
CN4b	MAIN	CN103	⇔	MONI-C	CN762	10
CN7a	MAIN	CN104	↔	REAR UNIT ASSY	CN408	8
CN7b	MAIN	CN112	⇔	REAR UNIT ASSY	CN401	12
CN8a	MAIN	CN102	⇔	FRONT	CN9001	6
CN8b	MAIN	CN106	↔	MIC	-	4
CN8c	MAIN	CN109	⇔	ZOOM UNIT	-	16
CN9a	MAIN	CN108	⇔	OP BLOCK ASSY	-	24
CN9b	MAIN	CN107	⇔	CCD	CN5001	16
CN10a	MAIN	CN110	⇔	PREMDA	CN408	40
CN10b	MAIN	CN111	⇔	PREMDA	CN401	40
CN11a	PREMDA	CN406	⇔	SENSOR	-	16
CN11b	PREMDA	CN405	⇔	CAPSTAN MOTOR	-	18
CN11c	PREMDA	CN404	⇔	DRUM MOTOR	CN901	11
CN11d	PREMDA	CN402	⇔	HEAD	-	8
CN11e	PREMDA	CN403	⇔	LOADING MOTOR	-	6
CN11f	PREMDA	CN407	⇔	ROTARY ENCODER	-	6
CN13	MONI-C	CN765	⇔	MONITOR ASSY	-	32
CN15	MONI-C	CN763	⇔	VF ASSY	CN7001	18

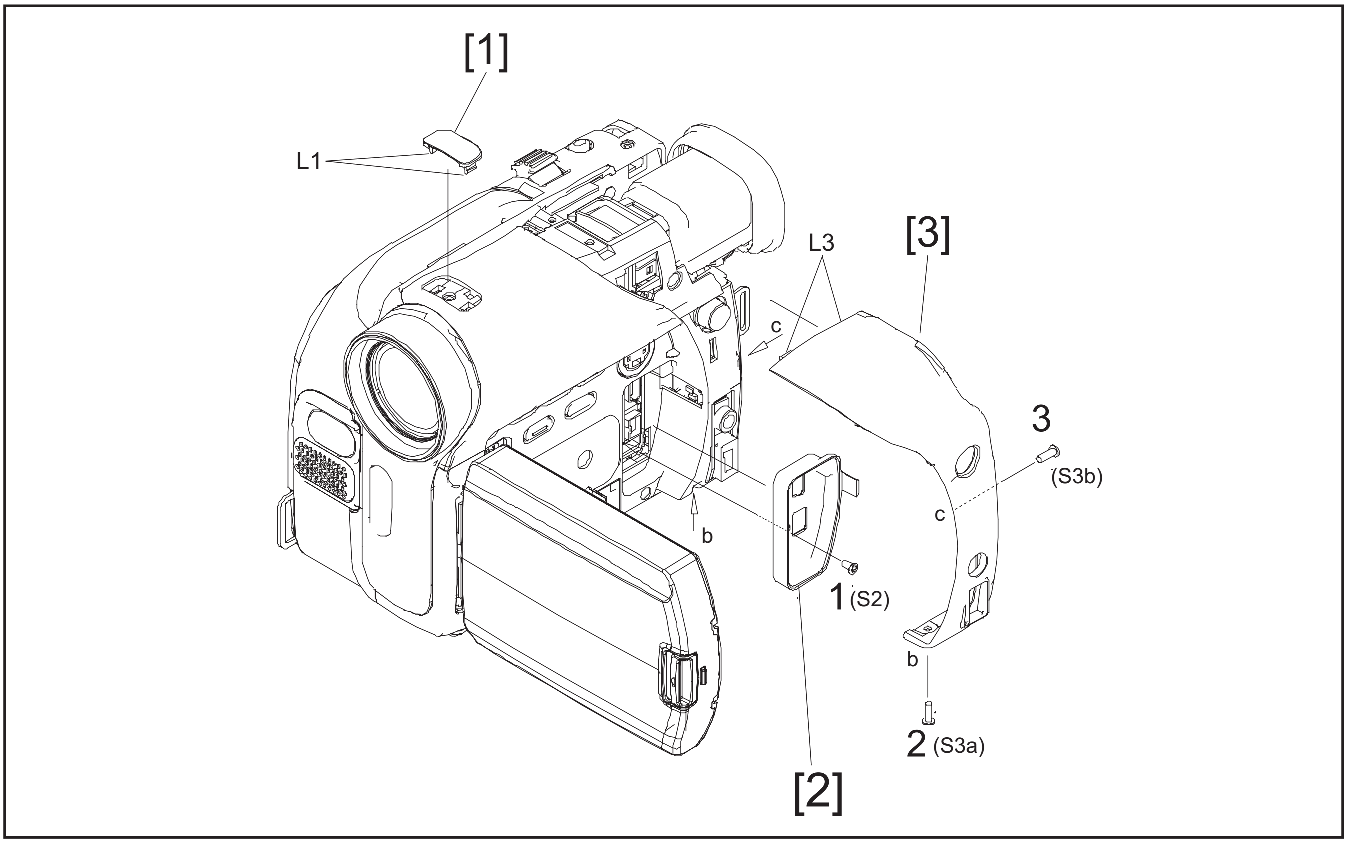

[1]
L1
L3
[3]
c
3
(S3b)
c
b
1 (S2)
b
2 (S3a)
[2]

Fig.C1

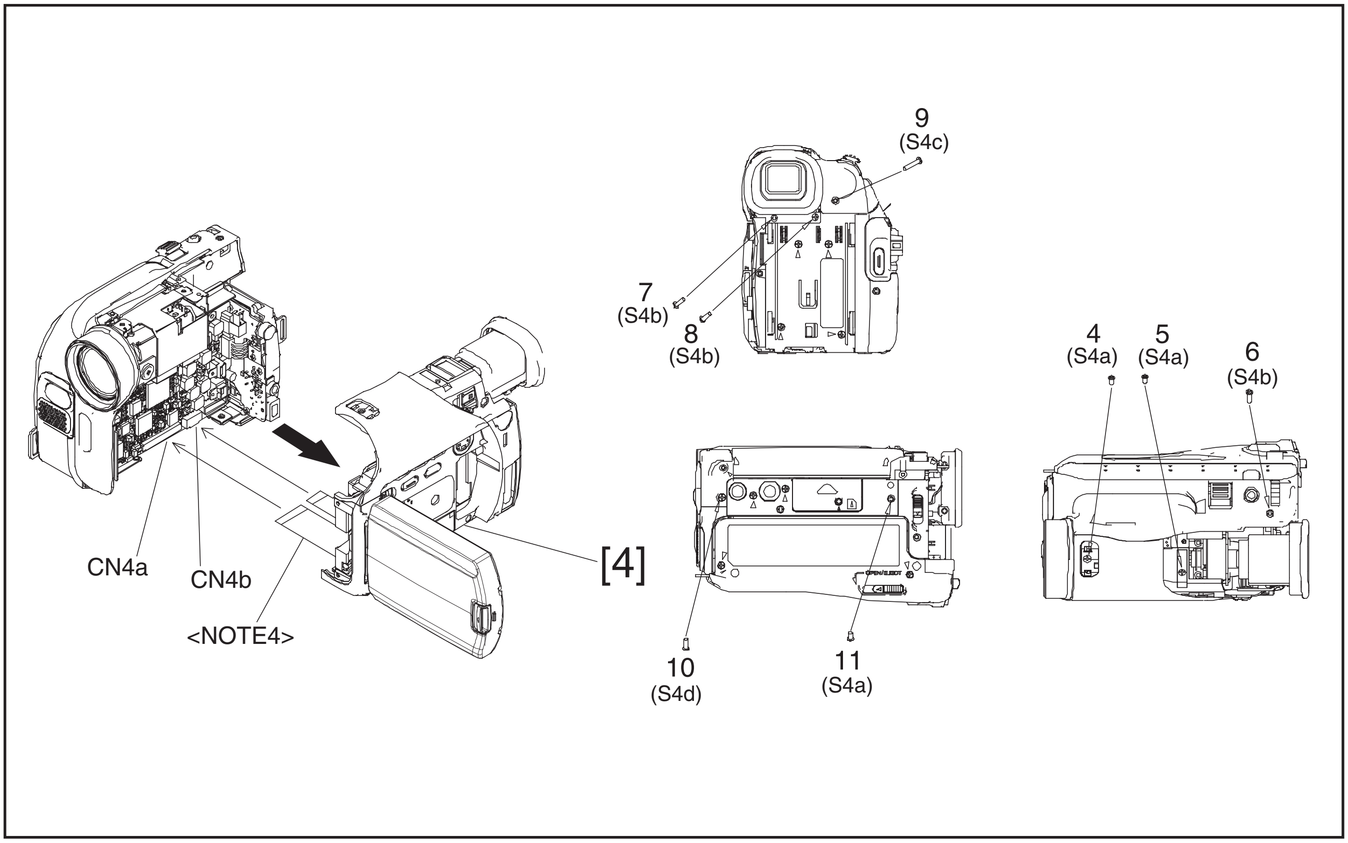

9
(S4c)
7
(S4b)
8
(S4b)
4
(S4a)
5
(S4a)
6
(S4b)
CN4a
CN4b
[4]
<NOTE4>
10
(S4d)
11
(S4a)
OPEN/EJECT

Fig.C2

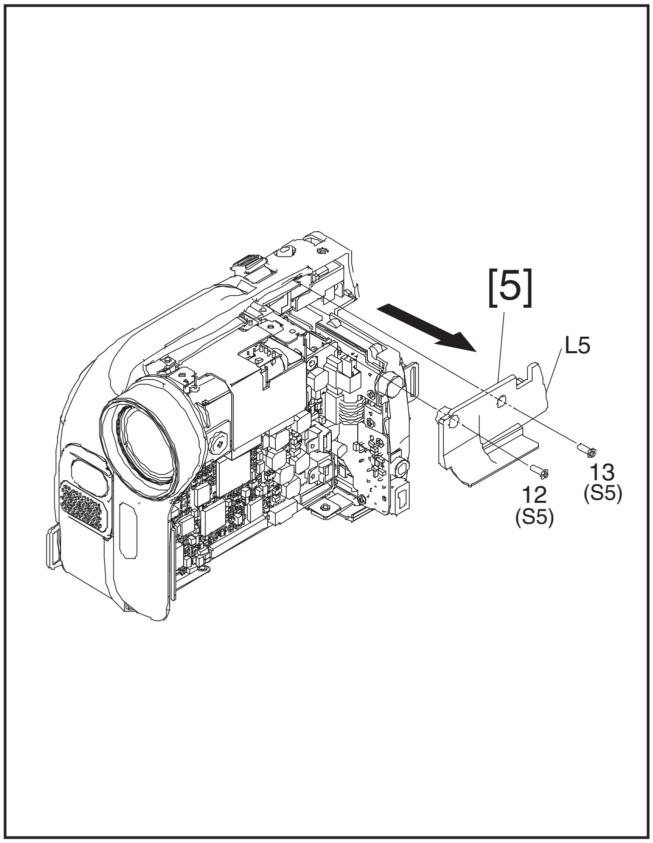

[5]
L5
13
(S5)
12
(S5)

Fig.C3

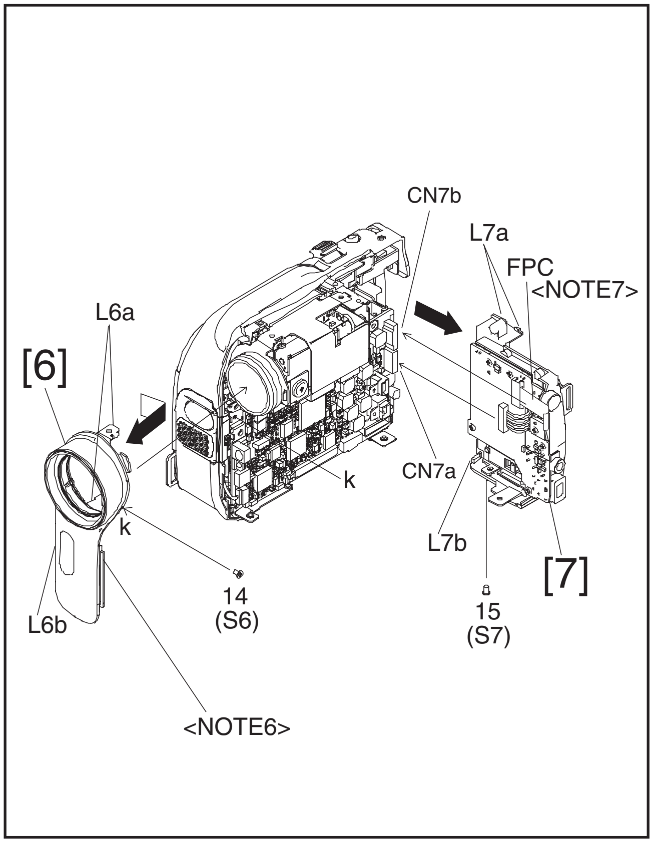

CN7b
L7a
FPC
<NOTE7>
L6a
[6]
k
CN7a
k
L7b
[7]
14
(S6)
15
(S7)
L6b
<NOTE6>

Fig.C4

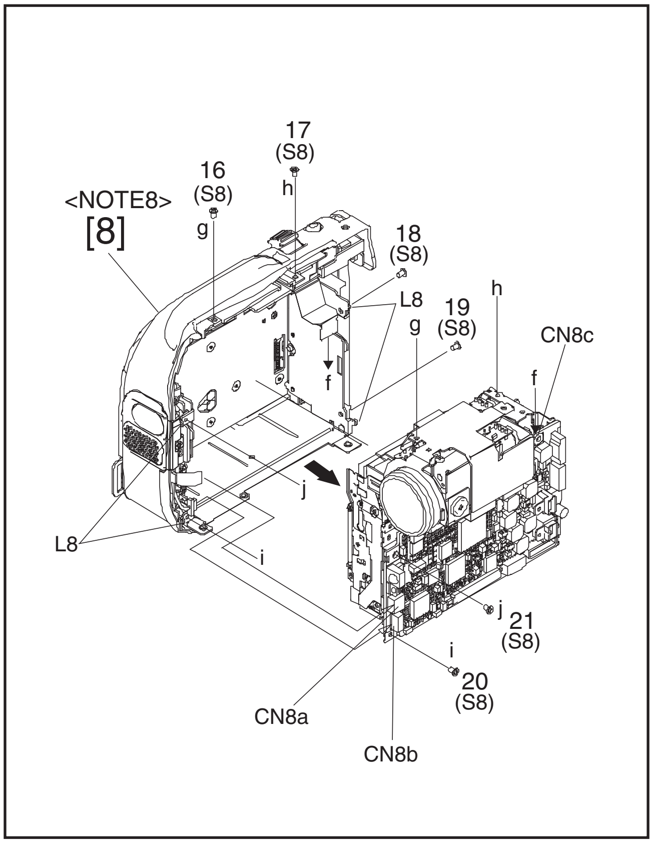

17
(S8)
16
(S8)
h
<NOTE8>
[8]
g
18
(S8)
L8
19
(S8)
h
g
CN8c
f
f
j
L8
i
j
21
(S8)
i
20
(S8)
CN8a
CN8b

Fig.C5

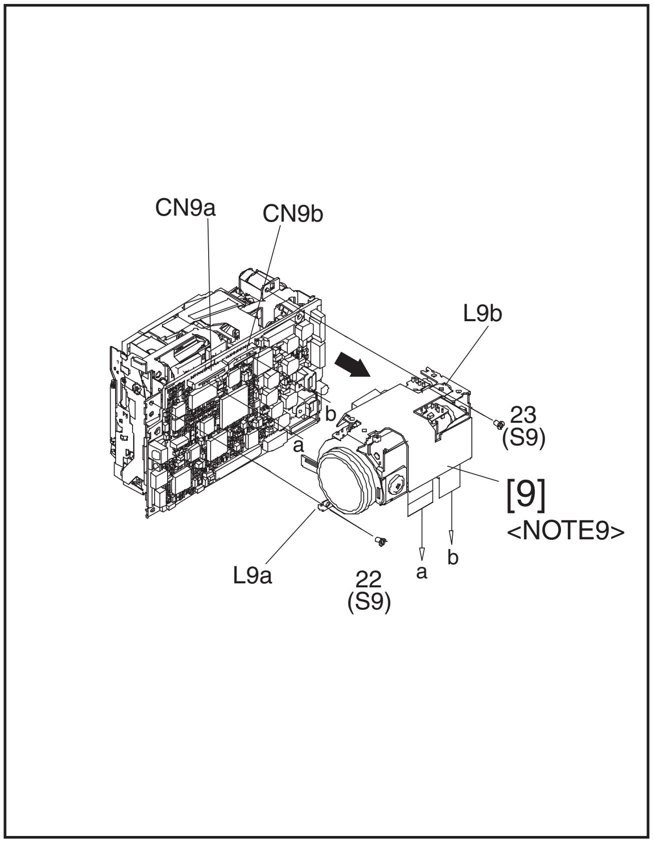

CN9a
CN9b
L9b
b
23
(S9)
a
[9]
<NOTE9>
L9a
22
(S9)
a
b

Fig.C6

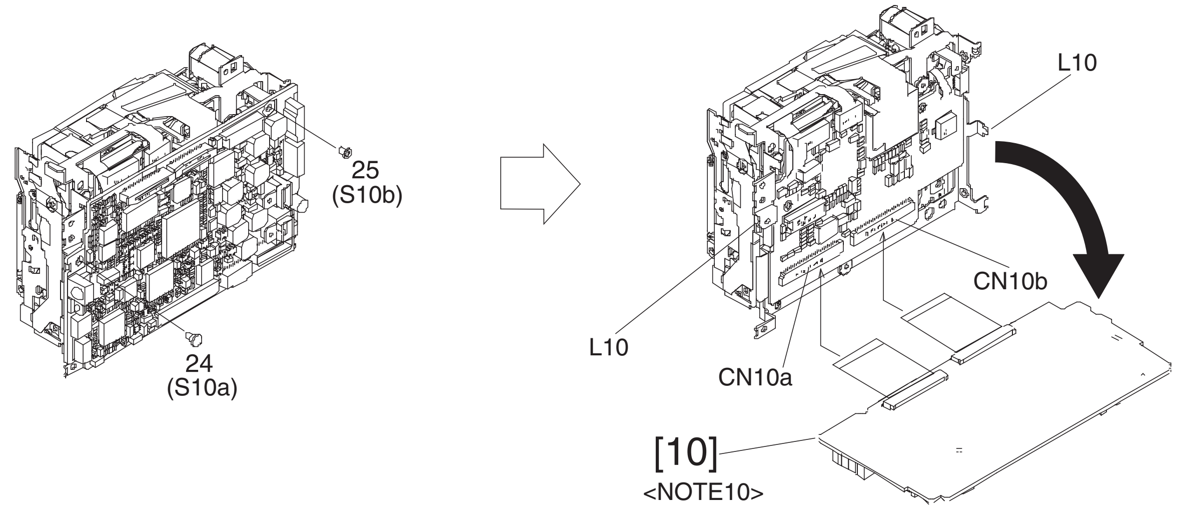
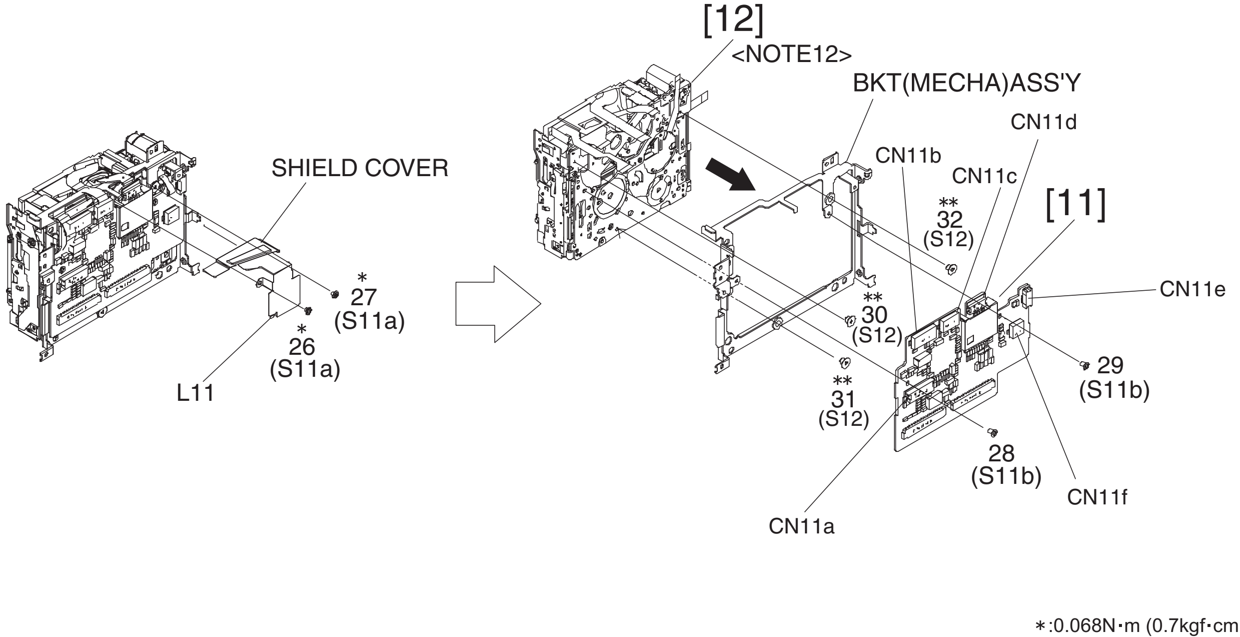

25
(S10b)
24
(S10a)
L10
L10
CN10b
CN10a
[10]
<NOTE10>

Fig.C7


[12]
<NOTE12>
BKT(MECHA)ASS'Y
CN11d
CN11b
CN11c
SHIELD COVER
**
32
(S12)
[11]
CN11e
*
27
(S11a)
**
30
(S12)
*
26
(S11a)
29
(S11b)
L11
**
31
(S12)
28
(S11b)
CN11f
CN11a

*:0.068N·m (0.7kgf·cm)
**:0.078N·m (0.8kgf·cm)

Fig.C8

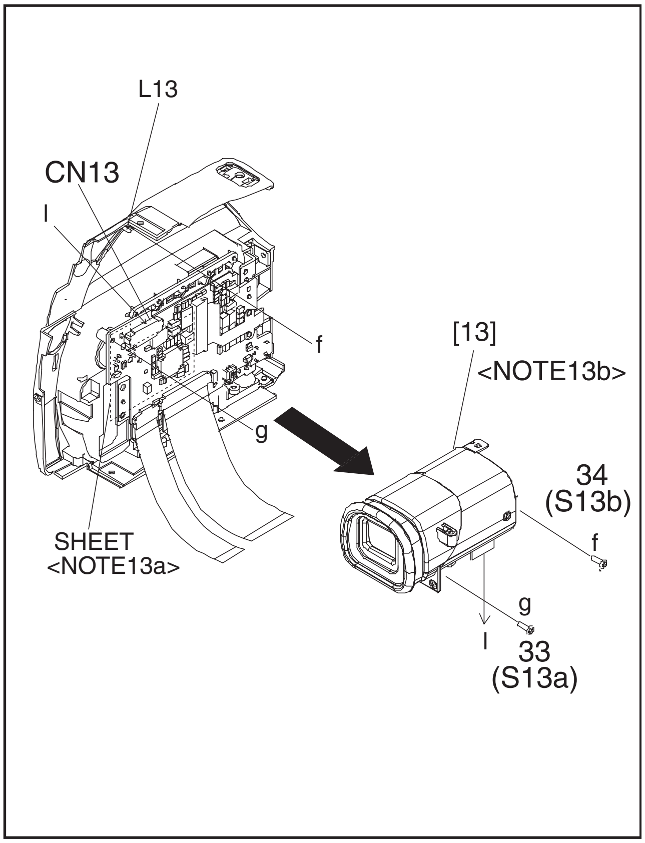
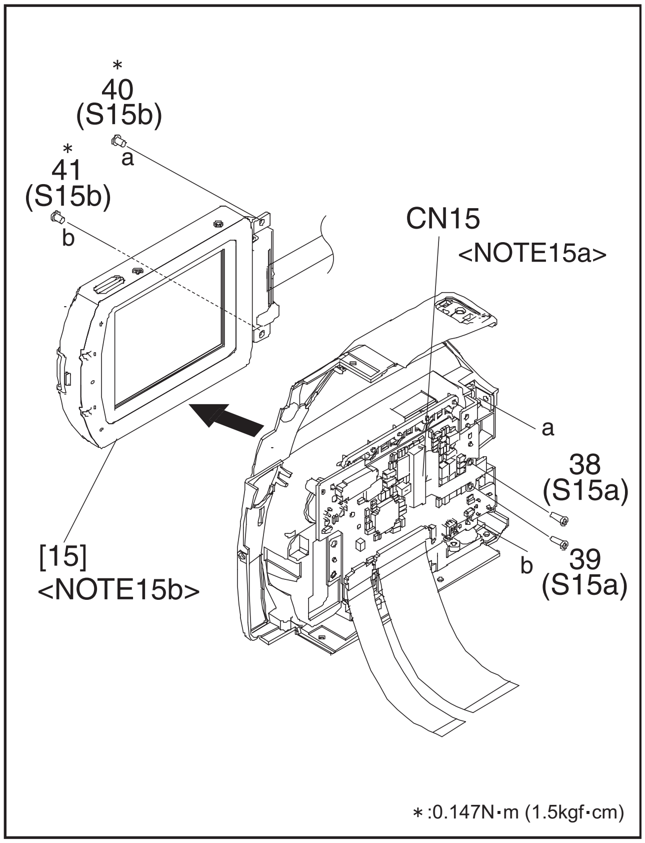

L13
CN13
l
f
[13]
<NOTE13b>
g
34
(S13b)
f
SHEET
<NOTE13a>
g
l
33
(S13a)

Fig.C9


*
40
(S15b)
a
*
41
(S15b)
b
CN15
<NOTE15a>
a
38
(S15a)
[15]
<NOTE15b>
b
39
(S15a)

∗:0.147N･m (1.5kgf･cm)

Fig.C11

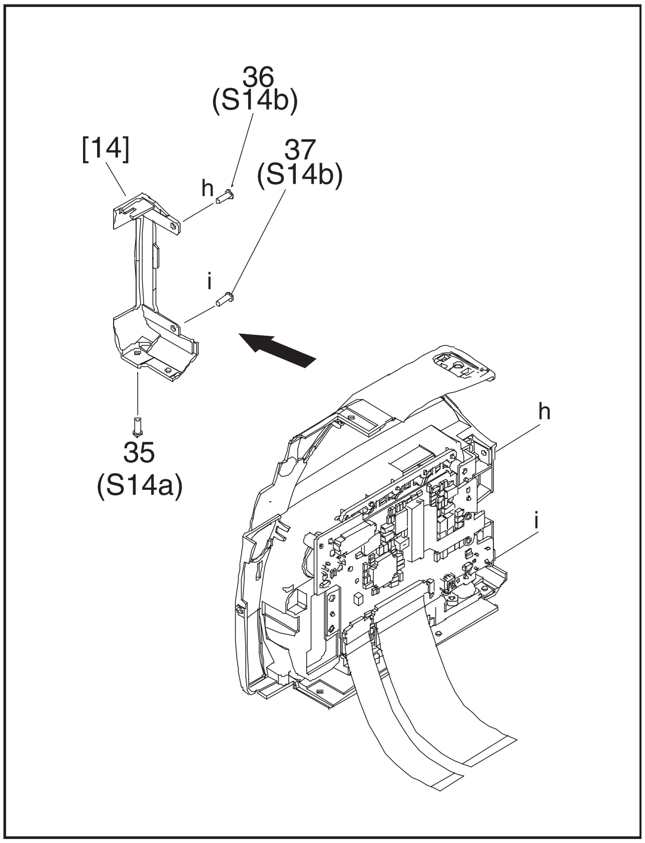

36
(S14b)
[14]
37
(S14b)
h
i
35
(S14a)
h
i

Fig.10

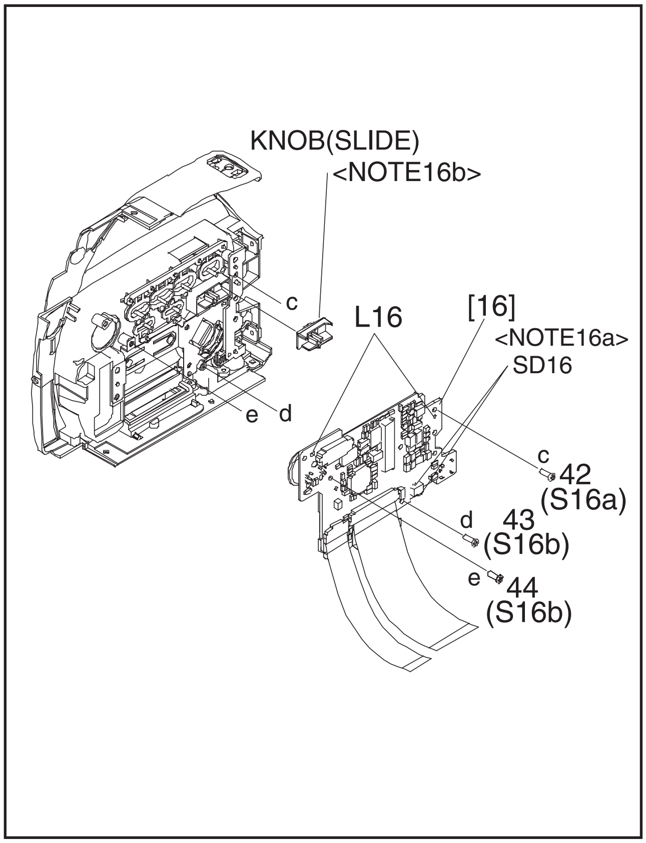

KNOB(SLIDE)
<NOTE16b>
c
L16
[16]
<NOTE16a>
SD16
e
d
c
42
(S16a)
d
43
(S16b)
e
44
(S16b)

Fig.C12

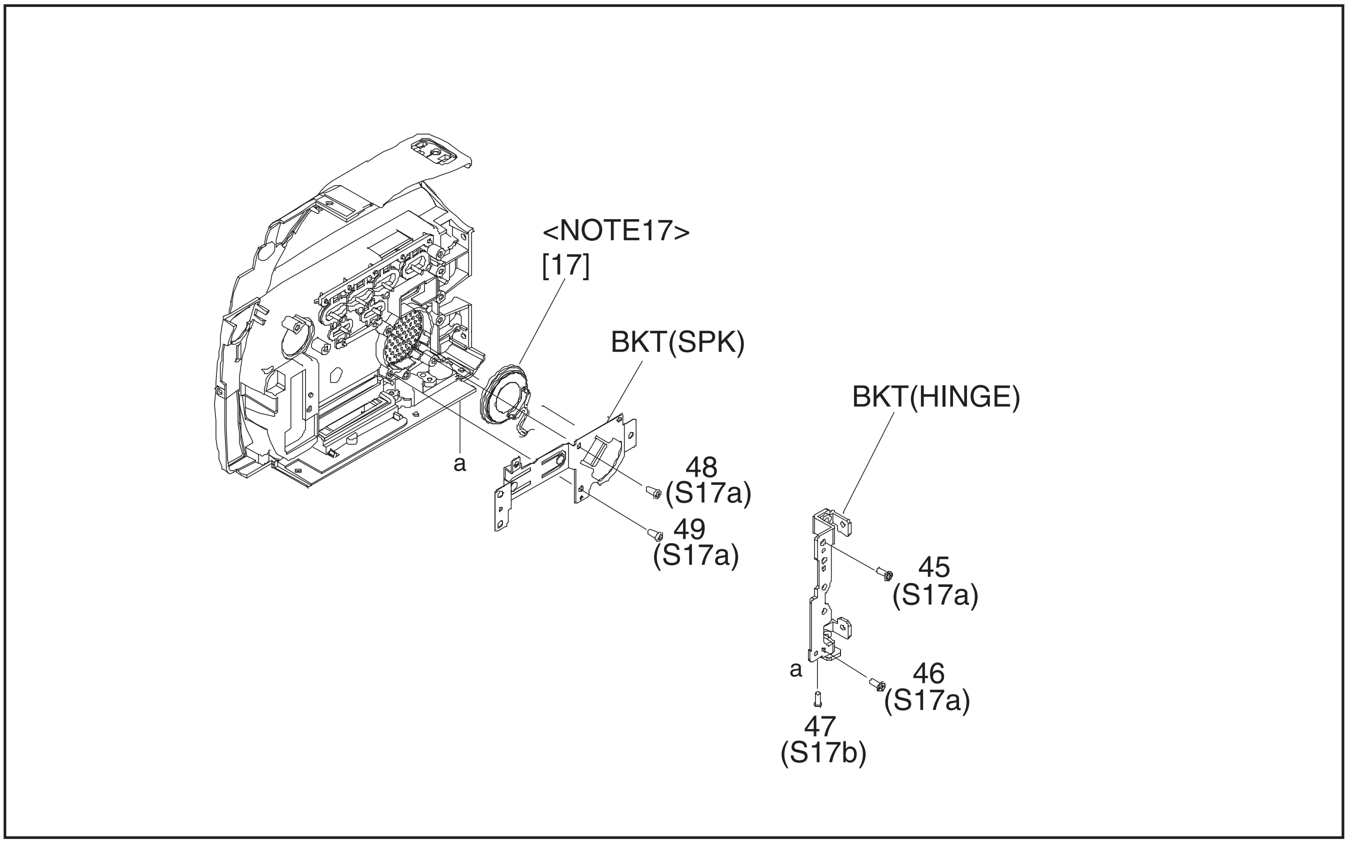

<NOTE17>
[17]
BKT(SPK)
BKT(HINGE)
a
48
(S17a)
49
(S17a)
45
(S17a)
a
46
(S17a)
47
(S17b)

Fig.13

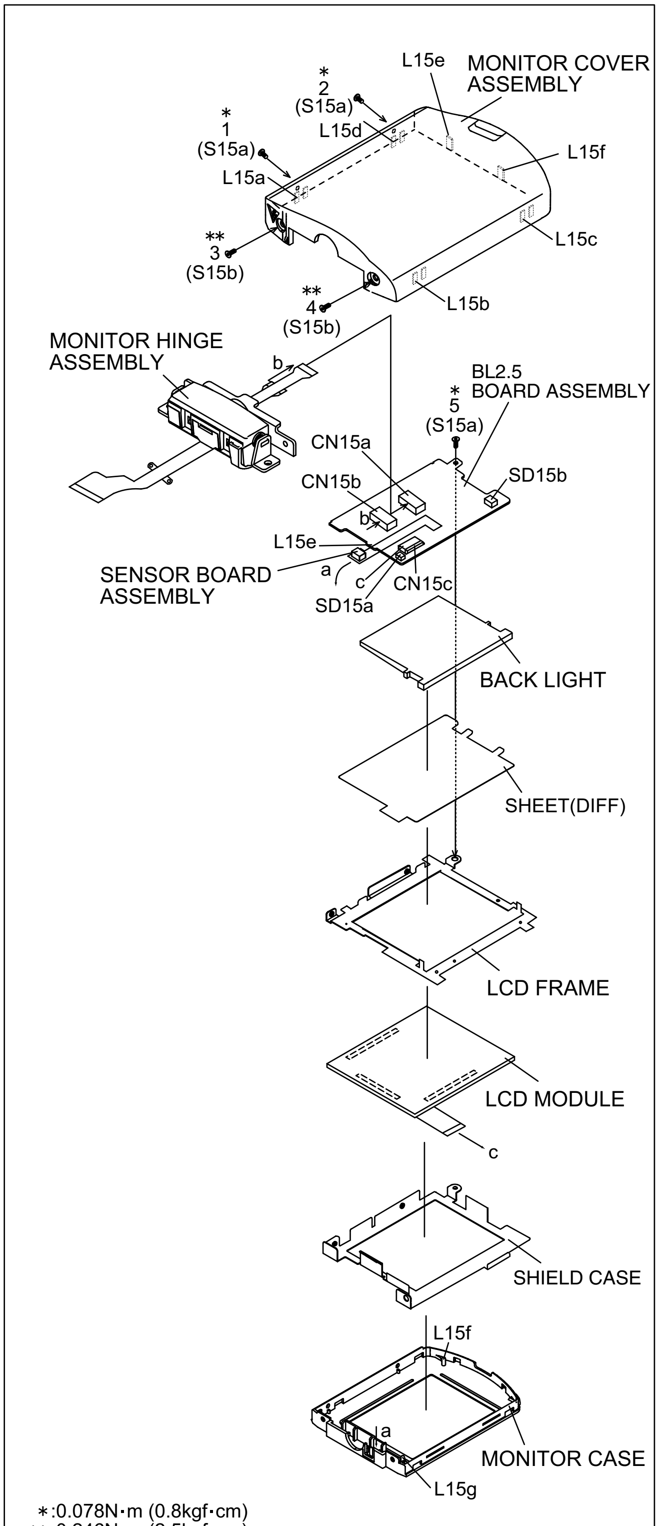
3.2.3 DISASSEMBLY/ASSEMBLY OF [15] MONITOR ASSEMBLY

●CAUTION

(1) During the procedure, be careful in handling the LCD MODULE,etc., especially not to damage or soil the monitor screen. If it is soiled with fingerprints, etc., gently clean it with chamois or the cleaning cloth.
(2) Since the BACKLIGHT is soldered to the ASSEMBLY BOARD, the BACKLIGHT should not be separated from the ASSEMBLY BOARD except when replacing the BACKLIGHT.

●Disassembly procedure of MONITOR ASSEMBLY

(1) While removing the 4 screws (1-4) in numerical order and disengaging the 6 hooks (L15a-L15f) in alphabetical order, remove the MONITOR COVER ASSY.
(2) Remove the SENSOR BOARD ASSEMBLY from the MONITOR CASE.
(3) Remove the FPC in CN15a and CN15b in alphabetical order, and remove the MONITOR HINGE ASSEMBLY.
(4) Remove the FPC of LCD MODULE from 1 connector CN15c.
(5) Remove 1 screw (5), and remove the BL BOARD ASSEMBLY together with the BACKLIGHT.
(6) Remove the SHEET (DIFF.).
(7) Remove the LCD FRAME.
(8) Remove the LCD MODULE.
(9) Remove the SHIELD CASE.


∗ 2 (S15a)
L15e
MONITOR COVER ASSEMBLY
∗ 1 (S15a)
L15d
L15f
L15a
L15c
∗∗ 3 (S15b)
∗∗ 4 (S15b)
L15b
MONITOR HINGE ASSEMBLY
b
BL2.5 BOARD ASSEMBLY
∗ 5 (S15a)
CN15a
SD15b
CN15b
b
L15e
SENSOR BOARD ASSEMBLY
a
c
CN15c
SD15a
BACK LIGHT
SHEET(DIFF)
LCD FRAME
LCD MODULE
c
SHIELD CASE
L15f
a
MONITOR CASE
L15g

∗:0.078N·m (0.8kgf·cm)
∗∗:0.246N·m (2.5kgf·cm)

Fig.3-2-3

3.2.4 ASSEMBLY/DISASSEMBLY OF [9] OP BLOCK ASSMBLY/CCD BOARD ASSEMBLY

●CAUTIONS

(1) During the procedure, be careful in handling the CCD IMAGE SENSOR, the OP LPF, and the LENS etc., especially not to damage or soil their surface.
If it is soiled with fingerprints, etc., gently clean it with chamois or the cleaning cloth.

(2) When the unit is shipped from the factory, a protection seal is sometimes applied onto the transparent glass of the CCD IMAGE SENSOR. Leave the protection seal as it is, and take it off just before assembling the CCD IMAGE SENSOR to the OP BLOCK ASSEMBLY.

●Disassembly procedure of OP BLOCK ASSEMBLY/CCD BOARD ASSEMBLY

(1) Unsolder the 14 soldered points (SD9), and remove the CCD BOARD ASSEMBLY.

(2) Remove the 2 screws (1 and 2), and remove the CCD BASE ASSEMBLY.

NOTE 9a:

When removing the CCD BASE ASSEMBLY, be careful not to lose or damage the SPACER or the OP LPF because they may be removed together with the CCD IMAGE SENSOR.

NOTE 9b:

In replacing the CCD IMAGE SENSOR, don't remove the CCD IMAGE SENSOR from the CCD BASE ASSEMBLY.
Instead, replace the whole CCD BASE ASSEMBLY.

●Assembly procedure of OP BLOCK ASSEMBLY/CCD BOARD ASSEMBLY

(1) Attach the OP LPF, the SHEET, and the SPACER to the OP BLOCK ASSEMBLY in this order.

(2) Attach the CCD BASE ASSEMBLY so that the spacer is not shifted, and tighten the CCD BASE ASSEMBLY with the 2 screws (1 and 2).

(3) Insert the CCD BOARD ASSEMBLY to the CCD BASE ASSEMBLY, and solder the 14 points (SD2).

●Replacement of service repair parts

Service repair parts of the OP BLOCK ASSEMBLY are as follows.
When replacing the parts, be careful not to cut or damage the FPC, and not to damage the parts due to soldering (overheat).

(1) Focus motor
(2) Zoom motor
(3) Iris motor unit

NOTE 9c:

To solder the FPC, lift the FPC approx.1mm away from the jack when replacing the FOCUS MOTOR or the ZOOM MOTOR.

NOTE 9d:

The IRIS MOTOR UNIT contains the FPC ASSEMBLY and the SENSOR ×2.

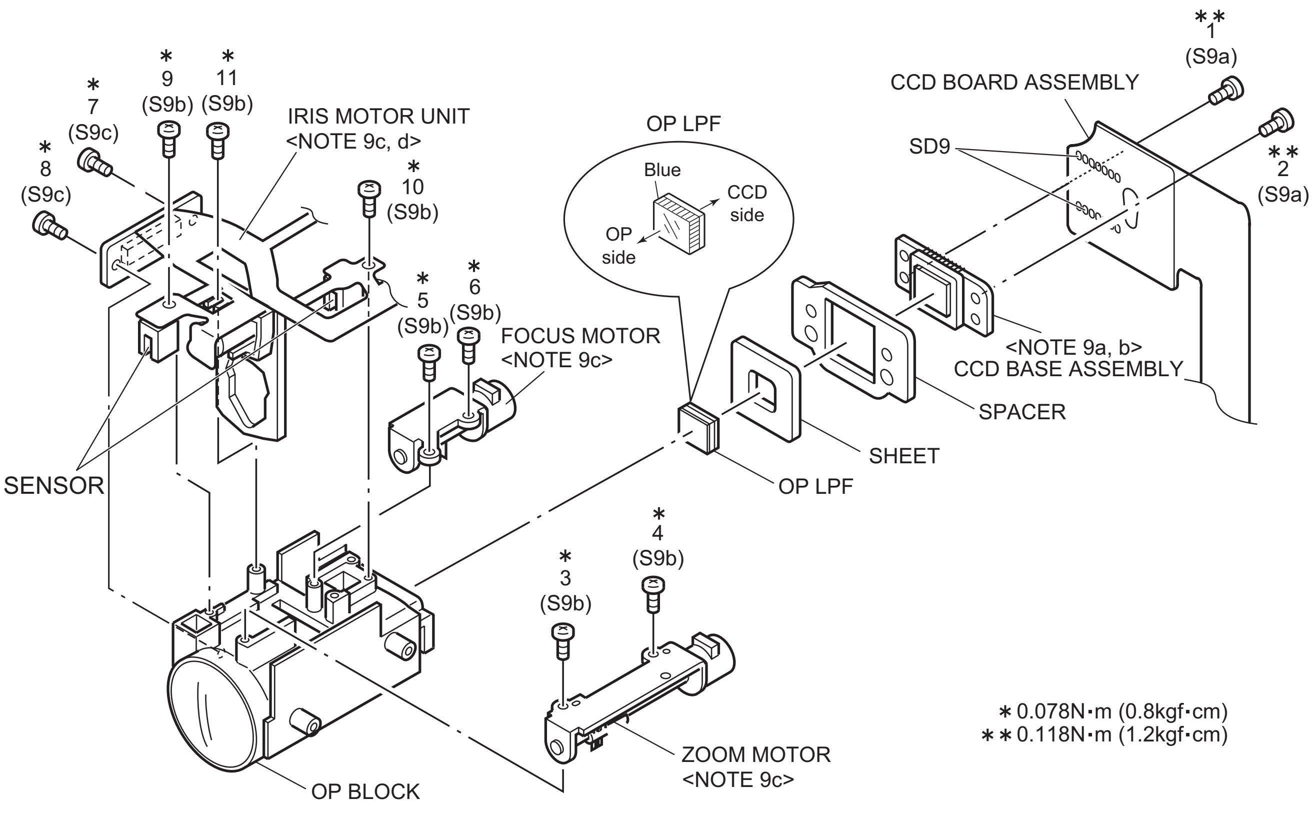

∗ 7 (S9c)
∗ 8 (S9c)
∗ 9 (S9b)
∗ 11 (S9b)
IRIS MOTOR UNIT <NOTE 9c, d>
∗ 10 (S9b)
∗ 5 (S9b)
∗ 6 (S9b)
FOCUS MOTOR <NOTE 9c>
SENSOR
OP LPF
Blue
CCD side
OP side
CCD BOARD ASSEMBLY
SD9
∗∗ 1 (S9a)
∗∗ 2 (S9a)
<NOTE 9a, b> CCD BASE ASSEMBLY
SPACER
SHEET
OP LPF
∗ 4 (S9b)
∗ 3 (S9b)
ZOOM MOTOR <NOTE 9c>
OP BLOCK
∗0.078N·m (0.8kgf·cm)
∗∗0.118N·m (1.2kgf·cm)

Fig.3-2-4

3.2.5 DISASSEMBLY/ASSEMBLY OF [13] VF ASSEMBLY

- When replacing the VF FPC ASSEMBLY, first remove the exterior parts of the VF ASSEMBLY (UPPER CASE(VF) and BOTTOM CASE(VF)). And then, remove the CONNECTOR from the BOARD ASSEMBLY. If you remove the CONNECTOR first, the FPC may be cut or the SWITCH may be damaged.

NOTE :

There are two types of VF(COLOR) ASSEMBLY used for this model: S type and K type.
For methods to distinguish the two types, see Cover Page.

●Disassembly of VF ASSEMBLY

(1) Remove the 2 screws (1 and 2), and remove the EYE CUP.
(2) Remove the FPC attached to the BRACKET(VF).
(3) Remove the 3 screws (3-5). Pull the BRACKET(VF), and remove the 2 screws (6 and 7). Then, remove the BRACKET(VF) from the FPC.

NOTE13a:

During the procedure, be careful not to cut the FPC.

(4) Pull the UPPER CASE(VF)/BOTTOM CASE(VF) from the HOLDER(VF) from FPC side, and remove the UPPER CASE(VF)/BOTTOM CASE(VF).
(5) Remove the 4 screws (8-11), and remove the BOTTOM CASE(VF) so that the BOTTOM CASE(VF) is facing upward.

NOTE13b:

During the operation, be careful of the LEVER (LENS). Especially, during the attachment procedure, be careful of the attachment position so that there is nothing wrong with sliding operation of the LENS ASSEMBLY.

(6) Remove the GUIDE LENS/LENS ASSEMBLY and the LCD UNIT from the UPPER CASE(VF) if necessary.

●Disassembly of GUIDE LENS/LENS ASSEMBLY

(1) Remove the SHEET (LENS) from the GUIDE LENS(VF).
(2) Remove the LENS ASSEMBLY from the GUIDE LENS(VF).

NOTE13c:

During the procedure, be careful not to damage or soil the LENS.

NOTE13d:

Be careful not to lose the SPRING (LENS).

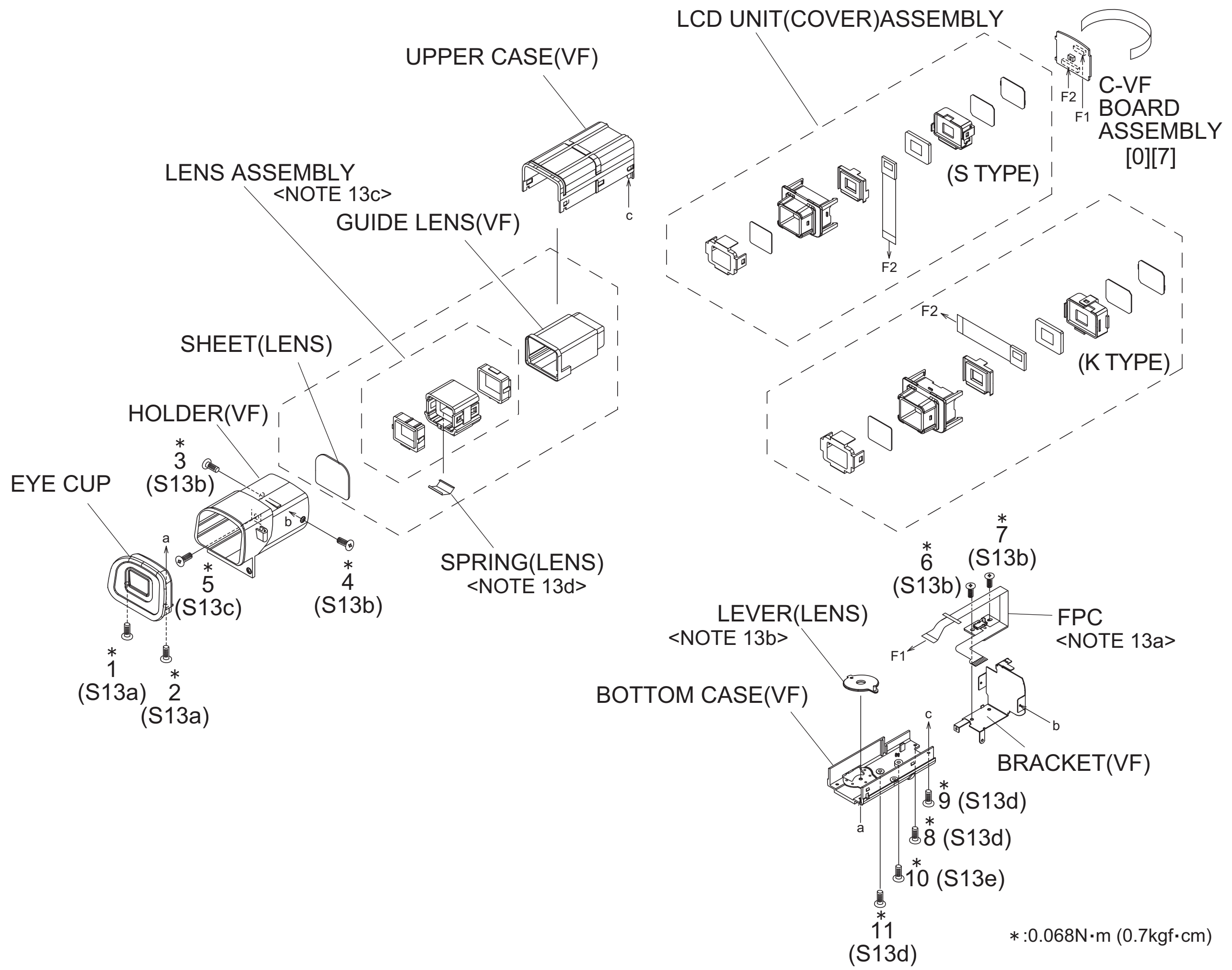

LCD UNIT(COVER)ASSEMBLY
UPPER CASE(VF)
C-VF
BOARD
ASSEMBLY
[0][7]
F2
F1
LENS ASSEMBLY
<NOTE 13c>
GUIDE LENS(VF)
(S TYPE)
c
F2
F2
SHEET(LENS)
(K TYPE)
HOLDER(VF)
*
3
(S13b)
EYE CUP
a
b
*
5
(S13c)
*
4
(S13b)
SPRING(LENS)
<NOTE 13d>
*
7
(S13b)
*
6
(S13b)
LEVER(LENS)
<NOTE 13b>
FPC
<NOTE 13a>
F1
*
1
(S13a)
*
2
(S13a)
BOTTOM CASE(VF)
c
b
BRACKET(VF)
*
9 (S13d)
a
*
8 (S13d)
*
10 (S13e)
*
11
(S13d)
*:0.068N·m (0.7kgf·cm)

Fig.3-2-5

SECTION 4
ADJUSTMENT

4.1 PREPARATION

4.1.1 Precaution

Camera system and deck system of this model are specially adjusted by using PC.
However, if parts such as the following are replaced, an adjustment is required. The adjustment must be performed in a Service Center equipped with the concerned facilities.

- OP BLOCK ASSEMBLY
- EEP ROM (IC1005 of MAIN board)

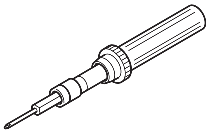
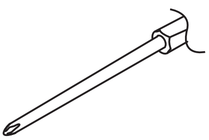
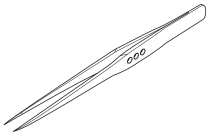
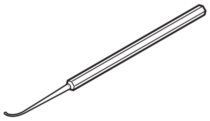
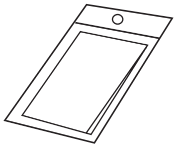
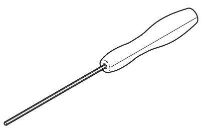
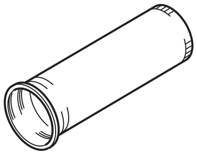
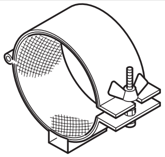
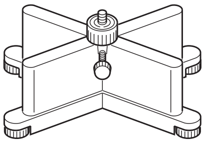
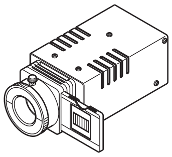
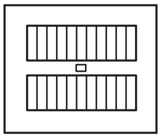
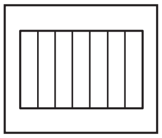
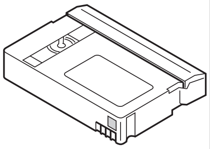
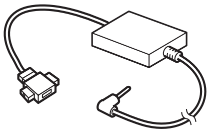
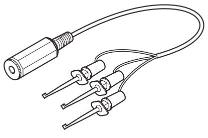
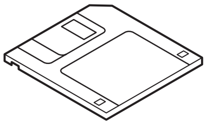
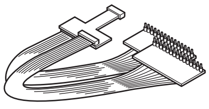
In the event of malfunction with electrical circuits, first find a defective portion with the aid of proper test instruments as shown in the following electrical adjustment procedure, and then commence necessary repair/ replacement/adjustment.

- In observing chip TP, use IC clips, etc. to avoid any stress. Prior to replacement of chip parts (especially IC), remove the solder completely to prevent peeling of the pattern.
- Use a patch cord if necessary. As for a patch cord, see the BOARD INTERCONNECTIONS.
- Since connectors are fragile, carefully handle them in disconnecting and connecting the FPC.

4.1.2 REQUIRED TEST EQUIPMENT

- Personal computer (for Windows)
- Color TV monitor
- Oscilloscope (dual-trace type, observable 100MHz or higher frequency). The one observable 300 MHz or higher frequency is recommended.
- Digital voltmeter
- DC power supply or AC adapter
- Frequency counter (with threshold level adjuster)

4.1.3 TOOLS REQUIRED FOR ADJUSTMENT

Torque Driver YTU94088	Bit YTU94088-003	Tweezers P-895
		
Chip IC Replacement Jig PTS40844-2	Cleaning Cloth KSMM-01	Guide Driver (Hexagonal) D-770-1.27
		
INF Adjustment Lens YTU92001B	INF Adjustment Lens Holder YTU94087	Camera Stand YTU93079
		
Light box Assembly YTU93096A	Gray Scale Chart YTU94133A	Color Bar Chart YTU94133C
		
Alignment Tape MC-1	PC Cable QAM0099-002	Communication Cable YTU93107A
		
Service Support System YTU94057-76	Jig Connector Cable YTU93082C	
		

- **Torque driver**
  Be sure to use to fastening the mechanism and exterior parts because those parts must strictly be controlled for tightening torque.
- **Bit**
  This bit is slightly longer than those set in conventional torque drivers.
- **Tweezers**
  To be used for removing and installing parts and wires.
- **Chip IC replacement jig**
  To be used for adjustment of the camera system.
- **Cleaning cloth**
  Recommended the Cleaning cloth to wipe down the video heads, mechanism (tape transport system), optical lens surface.

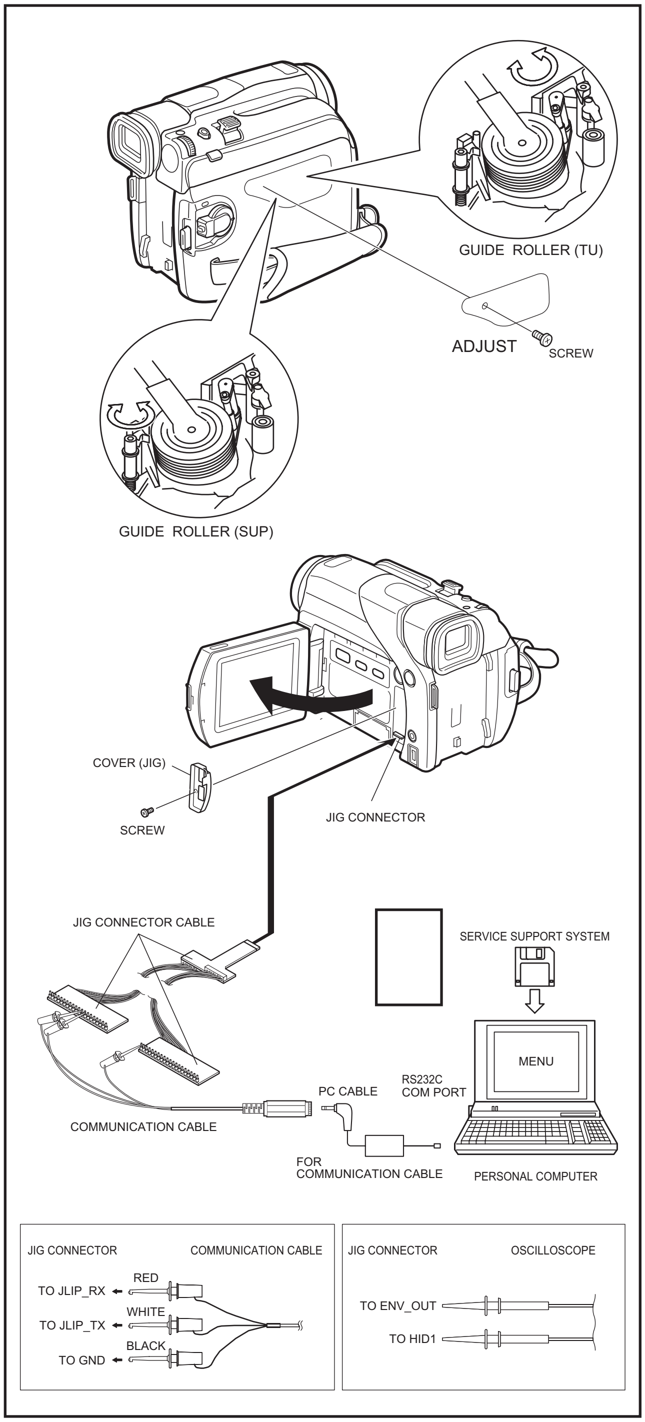
- **Guide driver (Hexagonal)**
  To be used to turn the guide roller to adjustment of the linarity of playback envelope.
- **INF adjustment lens**
  To be used for adjustment of the camera system. For the usage of the INF adjustment lens, refer to the Service Bulletin No. YA-SB-10035.
- **INF lens holder**
  To be used together with the Camera stand for operating the Videocamera in the stripped-down condition such as the status without the exterior parts or for using commodities that are not yet conformable to the interchangeable ring. For the usage of the INF lens holder, refer to the Service Bulletin No. YA-SB-10035.
- **Camera stand**
  To be used together with the INF adjustment lens holder. For the usage of the Camera stand, refer to the Service Bulletin No. YA-SB-10035.
- **Light box assembly**
  To be used for adjustment of the camera system. For the usage of the Light box assembly, refer to the Service Bulletin No. YA-SB-10035.
- **Gray scale chart**
  To be used for adjustment of the camera system. For the usage of the INF adjustment lens, refer to the Service Bulletin No. YA-SB-10035.
- **Color bar chart**
  To be used for adjustment of the camera system. For the usage of the INF adjustment lens, refer to the Service Bulletin No. YA-SB-10035.
- **Alignment tape**
  To be used for check and adjustment of interchangeability of the mechanism.
- **PC cable**
  To be used to connect the Videocamera and a personal computer with each other when a personal computer issued for adjustment.
- **Communication cable**
  Connect the Communication cable between the PC cable and Jig connector cable when performing a PC adjustment.
- **Service support system**
  To be used for adjustment with a personal computer. Software can be downloaded also from JS-net.
- **Jig connector cable**
  Connected to JIG CONNECTOR of the main board and used for electrical adjustment, etc.

4.2 JIG CONNECTOR CABLE CONNECTION

NOTE:

In the case of jig connector cable use, since you cannot perform supply from DC jack, use a battery terminal.

■ Connection procedure


GUIDE ROLLER (TU)
ADJUST
SCREW
GUIDE ROLLER (SUP)
COVER (JIG)
SCREW
JIG CONNECTOR
JIG CONNECTOR CABLE
SERVICE SUPPORT SYSTEM
MENU
RS232C
COM PORT
PC CABLE
COMMUNICATION CABLE
FOR
COMMUNICATION CABLE
PERSONAL COMPUTER
JIG CONNECTOR
COMMUNICATION CABLE
RED
TO JLIP_RX
WHITE
TO JLIP_TX
BLACK
TO GND
JIG CONNECTOR
OSCILLOSCOPE
TO ENV_OUT
TO HID1

■ Jig connector diagrams

JIG CONNECTOR CABLE (YTU93082C)

MAIN CN105

AL_3VSYS	1
CJIG_RST	16
NC	2
VCOM	17
STH1	3
CVF_R	18
CVF_B	4
V_OUT	19
GND	5
TXD2	20
MON_G	6
CVF_G	21
RXD2	7
MINI_CHG	22
JLIP_RX	8
GND	23
JLIP_TX	9
PB_CLK	24
HID1	10
GND	25
ATFI	11
ENV_OUT	26
MAIN_VCO	12
DISCRI	27
I_MTR	13
IF_TX	28
EXMOD_1	14
FS_PLL	29
MMOD_0	15
MMOD_1	30

⇨

JIG BOARD ASSY (14PIN)

NC	1
NC	2
VCOM	3
STH1	4
CVF_R	5
CVF_B	6
V_OUT	7
GND	8
TXD2	9
MON_G	10
CVF_G	11
RXD2	12
MONI_CHG	13
HID1	14

JIG BOARD ASSY (15PIN)

JLIP_RX	1
GND	2
JLIP_TX	3
PB_CLK	4
GND	5
ATFI	6
ENV_OUT	7
MAIN_VCO	8
DISCRI	9
I_MTR	10
IF_TX	11
EXMOD_1	12
FS_PLL	13
MMOD_0	14
MMOD_1	15

4.3 MECHANISM COMPATIBILITY ADJUSTMENT

4.3.1 Tape pattern adjustment

NOTE:

Prior to the adjustment, remove the cover (ADJUST).

(1) Play back the compatibility adjustment tape.
(2) While triggering the HID1, observe the waveform of ENV_OUT.
(3) Set the manual tracking mode (ATF OFF).
(4) Confirm that the waveform is entirely parallel and straight, and free from remarkable level-down, through the tracking operation.
Make the confirmation as follows if necessary.
(5) If level-down is observed on the left hand side of the waveform, straighten the level by turning the GUIDE ROLLER (SUP).
If level-down is observed on the right hand side of the waveform, straighten the
level by turning the GUIDE ROLLER (TU).
(6) After the adjustment, try the unloading motion once, and confirm that the waveform is flat when the tape has been played back again.
(7) Play back the self-recording.
(8) Confirm that the waveform is flat.

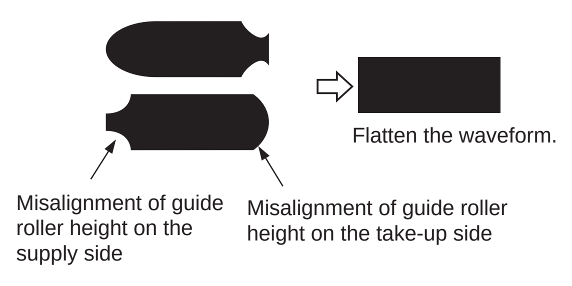

Flatten the waveform.
Misalignment of guide roller height on the supply side
Misalignment of guide roller height on the take-up side

Fig.4-3-1

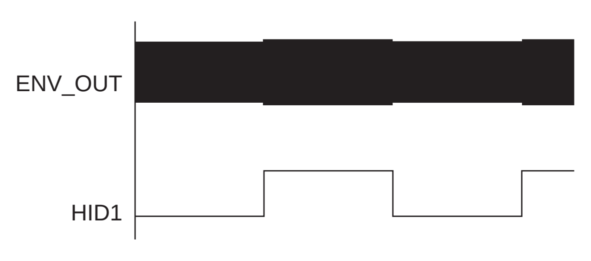


Fig.4-3-2

4.4 ELECTRICAL ADJUSTMENT

Electrical adjustment is performed by using a personal computer and software for SERVICE SUPPORT SYSTEM. Read README.TXT file to use the software properly.
As for the connection of cables, see "4.2 JIG CONNECTOR CABLE CONNECTION".

SECTION 5
TROUBLESHOOTING

5.1 SERVICE NOTE

CABINET PARTS AND ELECTRICAL PARTS

Symbol No.	[1]	[2]	[3]		[4]								[5]		[6]	[7]	[8]						[9]		[10]	
Removing order of screw	-	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Place to stick screw	-															*			*	*	*	*				
Reference drawing (Fig.No.)	C1				C2								C3		C4		C5						C6		C7	
Screw tightening torque	Ⅰ																									

CABINET PARTS AND ELECTRICAL PARTS

Symbol No.	[11]				[12]			[13]		[14]			[15]				[16]			[17]				
Removing order of screw	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49
Place to stick screw															*	*								
Reference drawing (Fig.No.)	C8							C9		C10			C11				C12			C13				
Screw tightening torque	Ⅱ		Ⅰ		Ⅲ			Ⅰ							Ⅳ		Ⅰ							

VF ASSEMBLY

	[13]										
Removing order of screw	1	2	3	4	5	6	7	8	9	10	11
Place to stick screw						*	*				
Reference drawing (Fig.No.)	3-2-5										
Screw tightening torque	Ⅱ										

MONITOR ASSEMBLY

	[15]				
Removing order of screw	1	2	3	4	5
Place to stick screw	*	*			
Reference drawing (Fig.No.)	3-2-3				
Screw tightening torque	Ⅲ		Ⅴ		Ⅲ

OP BLOCK ASSEMBLY

	[9]										
Removing order of screw	1	2	3	4	5	6	7	8	9	10	11
Place to stick screw											
Reference drawing (Fig.No.)	3-2-4										
Screw tightening torque	Ⅵ		Ⅲ								

NOTE:

1) * : Don't reuse the screw, because screw lock bond was applied to them.
2) Pay careful attention to tightening torque for each screw.

Ⅰ : 0.088N･m (0.9kgf･cm)
Ⅱ : 0.068N･m (0.7kgf･cm)
Ⅲ : 0.078N･m (0.8kgf･cm)
Ⅳ : 0.147N･m (1.5kgf･cm)
Ⅴ : 0.246N･m (2.5kgf･cm)
Ⅵ : 0.118N･m (1.2kgf･cm)

5.2 TAKE OUT CASSETTE TAPE

(1) Remove the Power Unit (battery or DC code) from the set.

(2) Remove 1 screw, and remove a plate (ADJ).

NOTE:
For more efficient operation, loosen and move the grip belt prior to the procedure (2).

(3) Open the CASSETTE COVER till it is completely opened and fixed.

(4) Attach a PVC tape as shown in the figure.

NOTE:
Be careful of cassette tape damage caused because the CASSETTE HOUSING ASSEMBLY is moved upward at the unloading end (EJECT mode).

(5) To set the SLIDE DECK ASSEMBLY to the unloading end, apply DC 3V to the electrode (terminal) on the top surface of the LOADING MOTOR ASSEMBLY that is seen through a hole under the plate removed in the procedure (2).

NOTE:
Be careful not to attach grease or a similar substance to the surface of the cassette tape on the tape transport system.

(6) Wind the cassette tape by directly turning the REEL DISK ASSEMBLY (SUP) from the backside of the SLIDE DECK ASSEMBLY by using a sharp tool (Chip IC replacement tool).

(7) Confirm that the cassette tape is completely wound, and then peel off the PVC tape from the CASSETTE HOUSING ASSEMBLY and take out the cassette tape.

NOTE:
To confirm that the cassette tape is completely wound, confirm that one REEL DISK ASSEMBLY (TU) rotates as you rotate the other REEL DISK ASSEMBLY (SUP).

(8) Make sure that grease or a similar substance is not attached to the surface of the tape taken out in the procedure (7). Similarly, also make sure that grease or a similar substance is not attached on the MECHANISM ASSEMBLY, especially the tape transport system.

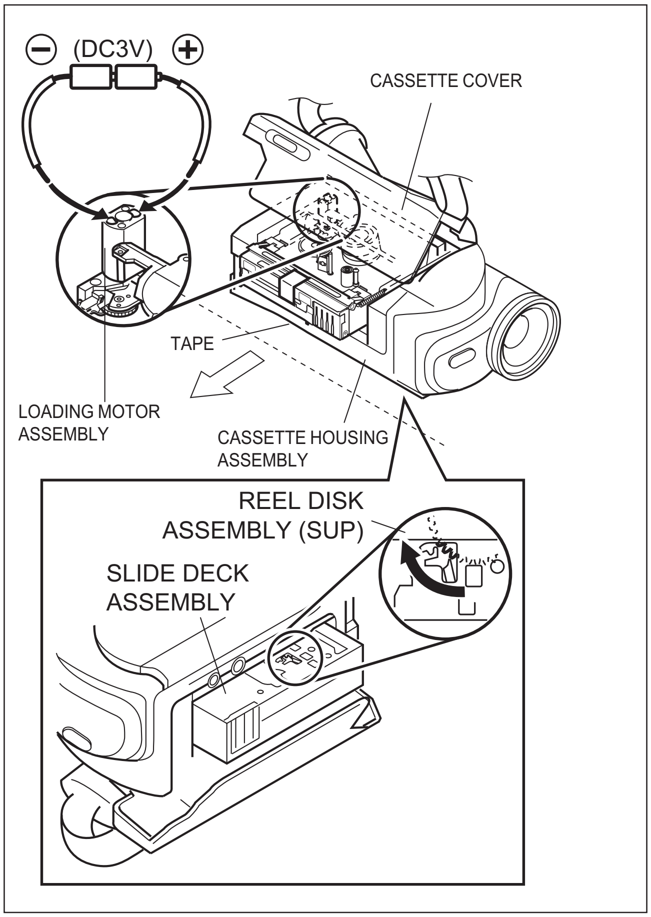


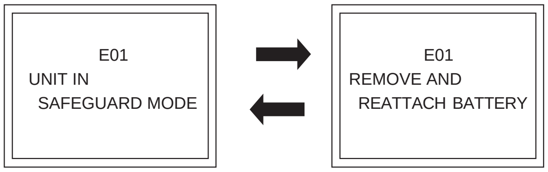
Fig.5-2-1

5.3 EMERGENCY DISPLAY

Whenever some abnormal signal is input to the syscon CPU, an error number (E01, as an example) is displayed on the LCD monitor or (in the electronic view finder).In every error status, such the message as shown below alter nately appear over and over.

- In an emergency mode, all operations except turning on/off the POWER switch are ineffectual.

Example (in case of the error number E01):



<table>
<tr><th>LCD display</th><th>Emergencymode</th><th>Details</th><th>Possible cause</th></tr>
<tr><td>E01</td><td>LOADING</td><td>In the case the encoder position is not shifted to the next point though the loading motor has rotated in the loading direction for 4 seconds or more. This error is defined as [E01].</td><td>1. The mechanism is locked during mode shift.
2. The mechanism is locked at the mechanism loading end, because the encoder position is skipped during mechanism mode shift.
3. No power is supplied to the loading MDA.</td></tr>
<tr><td>E02</td><td>UNLOADING</td><td>In the case the encoder position is not shifted to the next point though the loading motor has rotated in the unloading direction for 4 seconds or more. This error is defined as [E02].</td><td>1. The mechanism is locked during mode shift.
2. The mechanism is locked at the mechanism loading end, because the encoder position is skipped during mechanism mode shift.</td></tr>
<tr><td>E03</td><td>TU & SUP REEL FG</td><td>In the case no REEL FG is produced for seconds shown in the table below or more in the capstan rotation mode after loading was complete, the mechanism mode is shifted to STOP with the pinch roller set off. This error is defined as [E03].However, no REEL EMG is detected in the SLW/STILL mode.
<table>
<tr><th></th><th>REEL(SUP)</th><th>REEL(TU)</th></tr>
<tr><td>PB/REC</td><td>3 SEC</td><td>3 SEC</td></tr>
<tr><td>S-FWD</td><td>3 SEC</td><td>0.3 SEC</td></tr>
<tr><td>S-REW</td><td>0.3 SEC</td><td>3 SEC</td></tr>
<tr><td>FF</td><td>3 SEC</td><td>0.1 SEC</td></tr>
<tr><td>REW</td><td>0.1 SEC</td><td>3 SEC</td></tr>
</table></td><td>1. The idler gear does not engage with the reel disk well.
2. Though the idler gear and reel disk are engaged with each other, the tape is not wound because of overload to the mechanism.
3. No FG pulse is output from the reel sensor.
4. No power is supplied to the reel sensor.
5. Tape transport operation takes place with a cassette having no tape inside.
6. The tape slackens and no pulse is produced until the slack is taken up and the tape comes into the normal status.</td></tr>
<tr><td>E04</td><td>DRUM FG</td><td>In the case there is no DRUM FG input in the drum rotation mode for 4 seconds or more. This error is defined as [E04], and the mechanism mode is shifted to STOP with the pinch roller set off.</td><td>1. The drum cannot be started or drum rotation is stopped because tape transport load is too high.
1) Tape tension is extremely high.
2) The tape is damaged or soiled with grease, etc.
2. The DRUM FG signal is not received by the syscon CPU.
1) Disconnection in the middle of the signal line.
2) Failure of the DRUM FG pulse generator (hall element).
3. No drum control voltage is supplied to the MDA.
4. No power is supplied to the DRUM MDA.</td></tr>
<tr><td>E05</td><td>-</td><td>-</td><td>-</td></tr>
<tr><td>E06</td><td>CAPSTAN FG</td><td>In the case no CAPSTAN FG is produced in the capstan rotation mode for 2 seconds or more. This error is defined as [E06], and the mechanism mode is shifted to STOP with the pinch roller set off.However, no CAPSTAN EMG is detected in the STILL/FF/REW mode.</td><td>1. The CAPSTAN FG signal is not received by the syscon CPU.
1) Disconnection in the middle of the signal line.
2) Failure of the CAPSTAN FG pulse generator (MR element).
2. No capstan control voltage is supplied to the MDA.
3. The capstan cannot be started or capstan rotation is stopped because tape transport load is too high.
1) Tape tension is extremely high. (Mechanical locking)
2) The tape is damaged or soiled with grease, etc. (Tape tangling occurs, etc.)</td></tr>
</table>

Fig.5-3-1

JVC SERVICE & ENGINEERING COMPANY OF AMERICA
DIVISION OF JVC AMERICAS CORP.
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JVC CANADA INC.
Head office : 21 Finchdene Square Scarborough, Ontario M1X 1A7 (416)293-1311

Printed in Japan
WPC

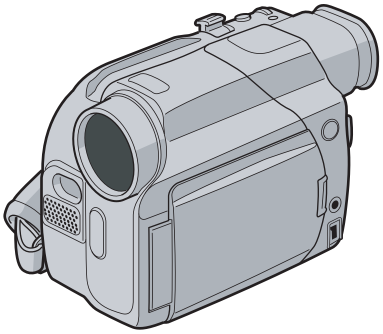
JVC

SCHEMATIC DIAGRAMS

DIGITAL VIDEO CAMERA

GR-D33US, GR-D73US

CD-ROM No.SML200402



Mini DV NTSC

DSC DIGITAL STILL CAMERA

GR-D33US [M4D1S3], GR-D73US [M4D1S7]

For disassembling and assembling of MECHANISM ASSEMBLY, refer to the SERVICE MANUAL No.86700 (MECHANISM ASSEMBLY).

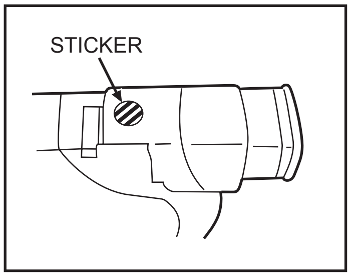
NOTE :

There are two types of VF(COLOR) ASSEMBLY used for this model: S type and K type.
Prior to repair operation related to VIEW FINDER, be sure to see the VF(COLOR) ASSEMBLY and Parts List.
Methods to distinguish the two types are as follows:

1. Distinction based on EEPROM DATA (EEPROM utility)
2. Distinction based on a part number of the MONI-C BOARD ASSEMBLY.
3. Distinction based on a sticker attached to the VF(COLOR) ASSEMBLY.

	S TYPE	K TYPE
EEPROM DATA	ADRS 3CCH:01H	ADRS 3CCH:05H
MONI-C PWB	YB10447 SERIES	YB10453 SERIES
VF(COLOR) ASSY	NO STICKER	STICKER ON TOP FACE

VF(COLOR) ASSEMBLY



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No.YF005SCH
2004/1

CHARTS AND DIAGRAMS

NOTES OF SCHEMATIC DIAGRAM

Safety precautions
The Components identified by the symbol ⚠ are critical for safety. For continued safety, replace safety critical components only with manufacturer's recommended parts.

1. Units of components on the schematic diagram

Unless otherwise specified.

1) All resistance values are in ohm. 1/6 W, 1/8 W (refer to parts list).
   Chip resistors are 1/16 W.
   K: K (1000), M: M (1000K)
2) All capacitance values are in µF, (P: PF).
3) All inductance values are in µH, (m: mH).
4) All diodes are 1SS133, MA165 or 1N4148M (refer to parts list).

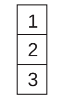
Note: The Parts Number, value and rated voltage etc. in the Schematic Diagram are for references only. When replacing the parts, refer to the Parts List.

2. Indications of control voltage

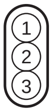
AUX : Active at high.

$\overline{\text{AUX}}$ or AUX(L) : Active at low.

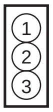
3. Interpreting Connector indications



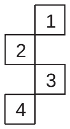
Removable connector



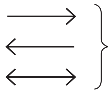
Wire soldered directly on board



Non-removable Board connector



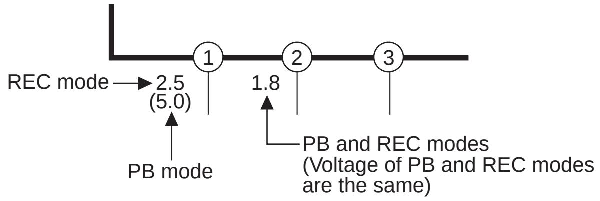
Board to Board


Connected pattern on board
The arrows indicate signal path

Note: For the destination of each signal and further line connections that are cut off from the diagram, refer to "BOARD INTERCONNECTIONS"

4. Voltage measurement

1) Regulator (DC/DC CONV) circuits
   REC : Colour bar signal.
   PB : Alignment tape (Colour bar).
   — : Unmeasurable or unnecessary to measure.
2) Indication on schematic diagram
   Voltage Indications for REC and PB mode on the schematic diagram are as shown below.



Note: If the voltages are not indicated on the schematic diagram, refer to the voltage charts.

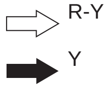
5. Signal path Symbols

The arrows indicate the signal path as follows.

NOTE : The arrow is DVC unique object.

⇨	Playback signal path
▭▶	Playback and recording signal path
➡	Recording signal path (including E-E signal path)
⇨▷	Capstan servo path
➡▶	Drum servo path

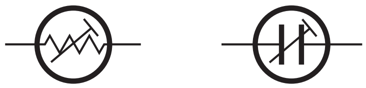
(Example)



Playback R-Y signal path
Recording Y signal path

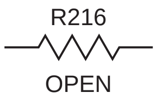
6. Indication of the parts for adjustments

The parts for the adjustments are surrounded with the circle as shown below.



7. Indication of the parts not mounted on the circuit board

“OPEN” is indicated by the parts not mounted on the circuit board.



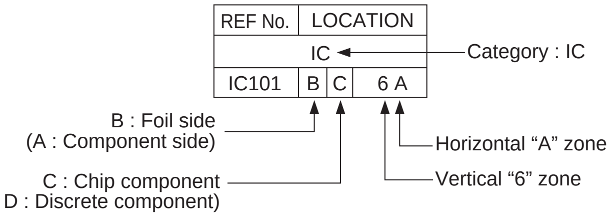
CIRCUIT BOARD NOTES

1. Foil and Component sides

1) Foil side (B side) :
   Parts on the foil side seen from foil face (pattern face) are indicated.
2) Component side (A side) :
   Parts on the component side seen from component face (parts face) indicated.

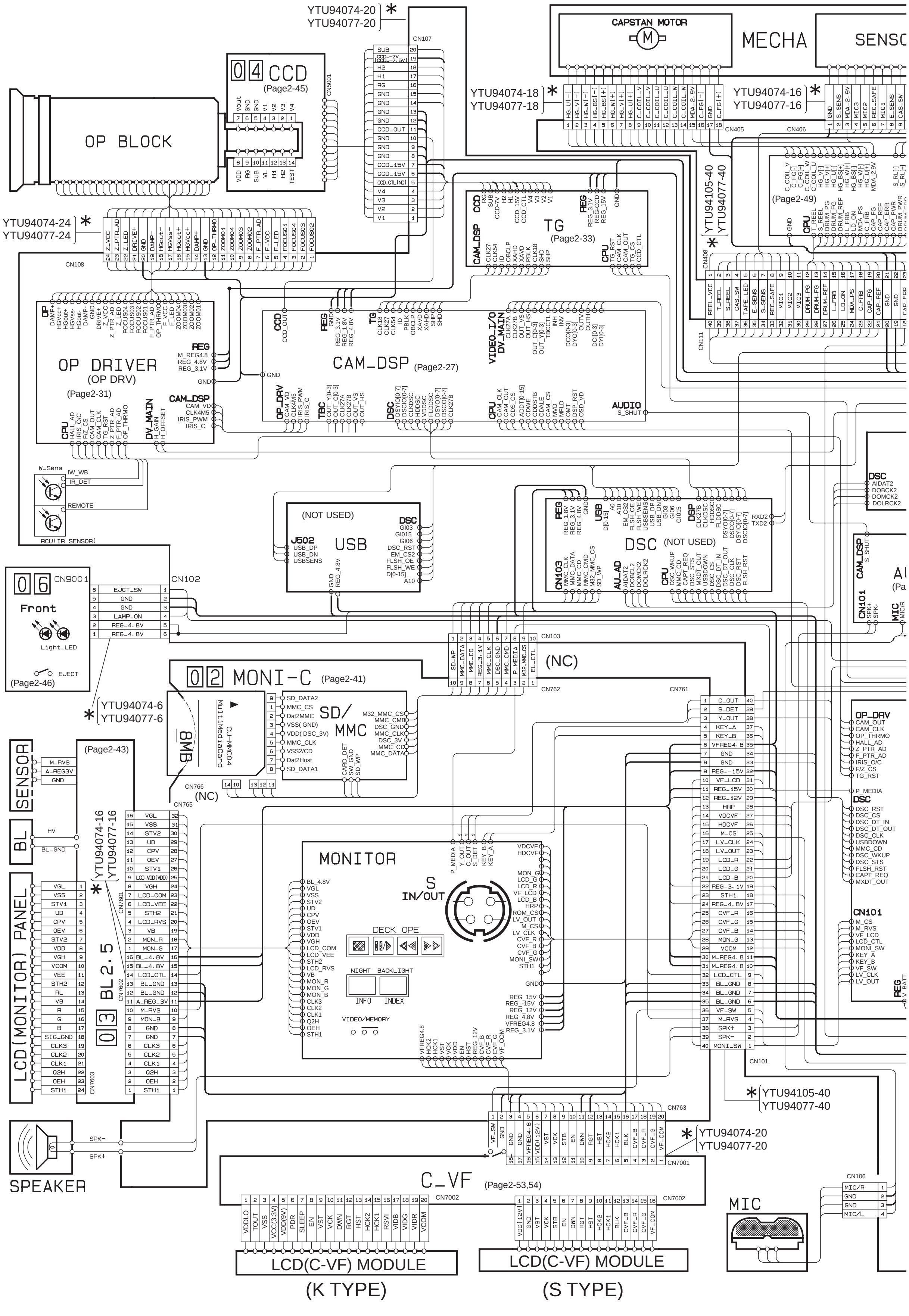
2. Parts location guides

Parts location are indicated by guide scale on the circuit board.

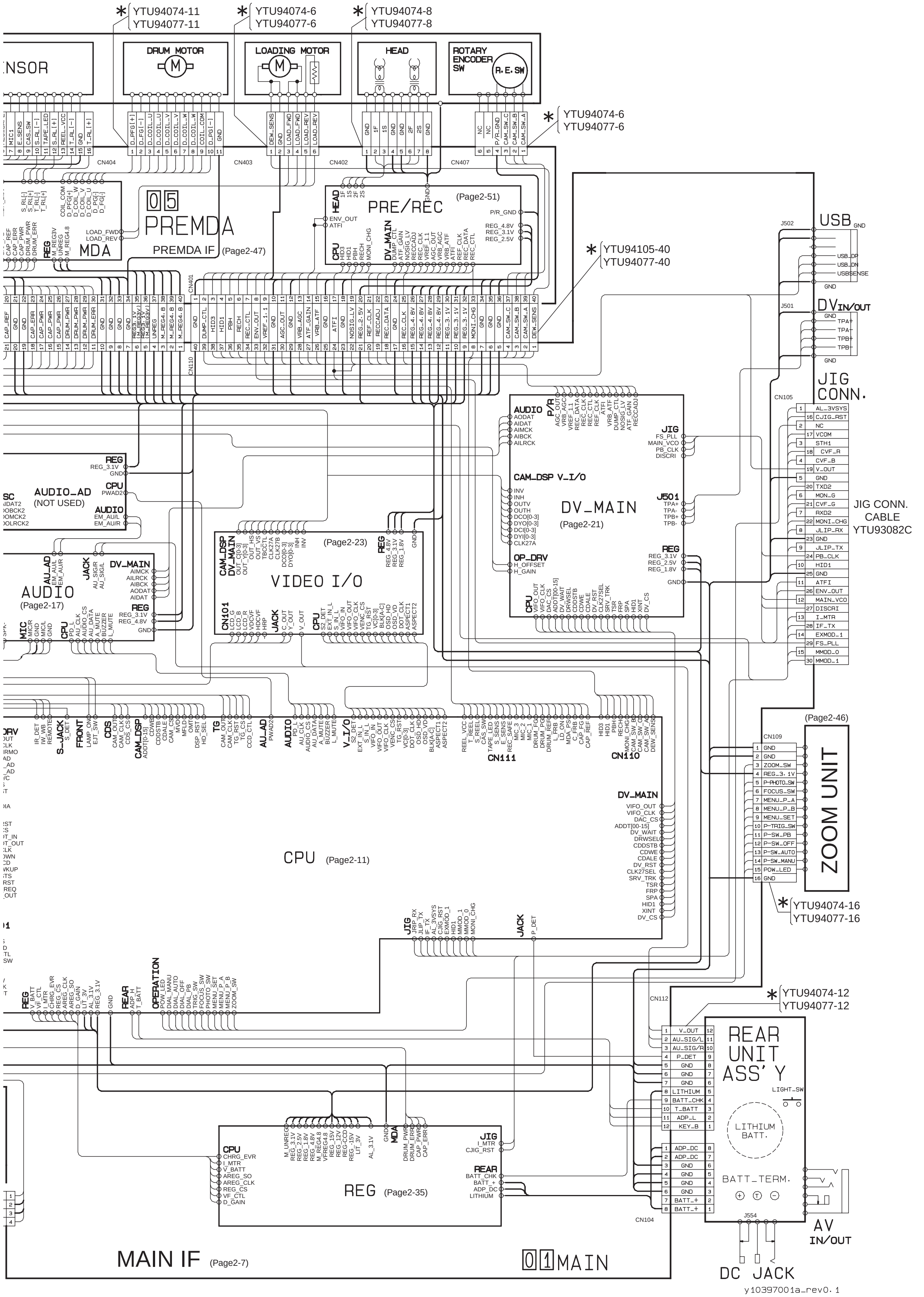

REF No.
LOCATION
IC
Category : IC
IC101
B
C
6 A
B : Foil side
(A : Component side)
C : Chip component
D : Discrete component)
Horizontal “A” zone
Vertical “6” zone

Note: For general information in service manual, please refer to the Service Manual of GENERAL INFORMATION Edition 4 No. 82054D (January 1994).

■ BOARD INTERCONNECTION (GR-D33)


YTU94074-20
YTU94077-20
CN107
04 CCD
(Page2-45)
CN5001
OP BLOCK
CAPSTAN MOTOR
MECHA
SENSO
YTU94074-18
YTU94077-18
YTU94074-16
YTU94077-16
CN405
CN406
YTU94105-40
YTU94077-40
(Page2-49)
YTU94074-24
YTU94077-24
CN108
TG
(Page2-33)
CAM_DSP
CCD
REG
CPU
CN408
CN111
OP DRIVER
(OP DRV)
(Page2-31)
CAM_DSP
(Page2-27)
OP_DRV
TBC
DSC
VIDEO_I/O
DV_MAIN
AUDIO
W_Sens
REMOTE
RCU(IR SENSOR)
(NOT USED)
J502
USB
DSC
(NOT USED)
CN103
AU_AD
06
CN9001
Front
Light_LED
EJECT
(Page2-46)
CN102
EJCT_SW
GND
LAMP_ON
REG_4.8V
CN103
(NC)
CN762
CN761
02 MONI-C
(Page2-41)
SD/MMC
CU-MMC04
MultiMediaCard
8MB
YTU94074-6
YTU94077-6
CN766
CN765
(NC)
(Page2-43)
SENSOR
BL
LCD(MONITOR) PANEL
YTU94074-16
YTU94077-16
03 BL2.5
CN7601
CN7602
CN7603
MONITOR
S IN/OUT
DECK OPE
NIGHT
BACKLIGHT
INFO
INDEX
VIDEO/MEMORY
OP_DRV
DSC
CN101
REG
CN101
YTU94105-40
YTU94077-40
CN763
YTU94074-20
YTU94077-20
CN7001
SPEAKER
SPK-
SPK+
C_VF
(Page2-53,54)
CN7002
CN7002
CN106
MIC
MIC/R
GND
MIC/L
LCD(C-VF) MODULE
(K TYPE)
LCD(C-VF) MODULE
(S TYPE)

NOTE) :The number of patch cords are indicated by inter connected.

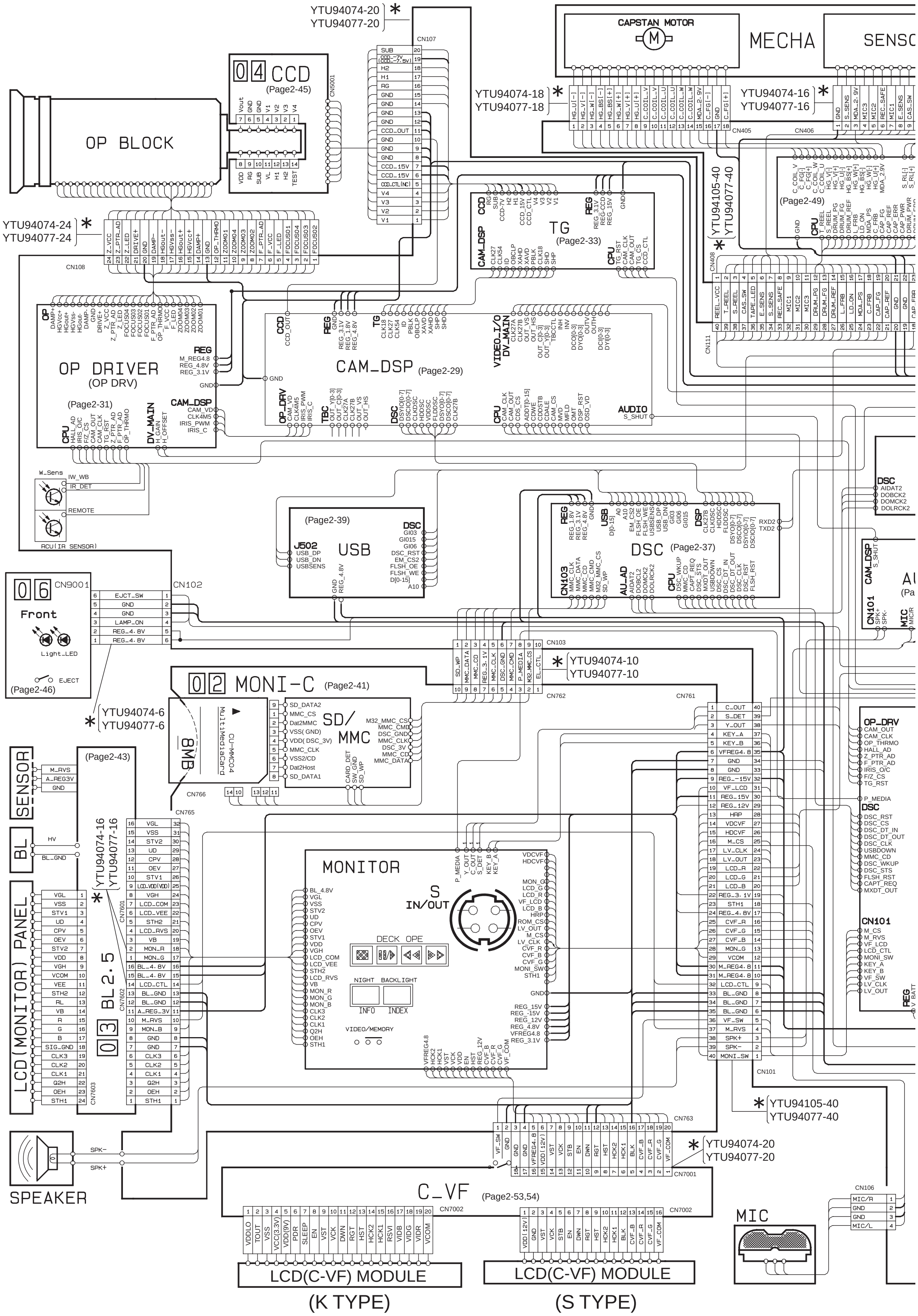

YTU94074-11
YTU94077-11
YTU94074-6
YTU94077-6
YTU94074-8
YTU94077-8
NSOR
DRUM MOTOR
LOADING MOTOR
HEAD
ROTARY ENCODER SW
R.E.SW
YTU94074-6
YTU94077-6
CN404
CN403
CN402
CN407
05 PREMDA
MDA
PREMDA IF (Page2-47)
PRE/REC
(Page2-51)
YTU94105-40
YTU94077-40
USB
J502
DV IN/OUT
J501
JIG CONN.
CN105
JIG CONN. CABLE YTU93082C
CN401
CN110
REG
AUDIO_AD
(NOT USED)
CPU
AUDIO
AUDIO
(Page2-17)
DV_MAIN
JACK
MIC
VIDEO I/O
(Page2-23)
CAM_DSP
DV_MAIN
CN101
DV_MAIN
(Page2-21)
JIG
J501
CAM_DSP V_I/O
OP_DRV
P/R
(Page2-46)
CN109
ZOOM UNIT
CN111
CN110
CPU (Page2-11)
YTU94074-16
YTU94077-16
FRONT
S_JACK
TG
V_I/O
CDS
JACK
YTU94074-12
YTU94077-12
CN112
REAR UNIT ASS'Y
LIGHT_SW
LITHIUM BATT.
BATT_TERM.
OPERATION
REAR
REG (Page2-35)
JIG
REAR
MDA
CN104
J554
AV IN/OUT
DC JACK
MAIN IF (Page2-7)
01 MAIN
y10397001a_rev0.1

NOTES: UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN µF.

ELECTROLYTIC
CERAMIC
MYLER
NON POLAR

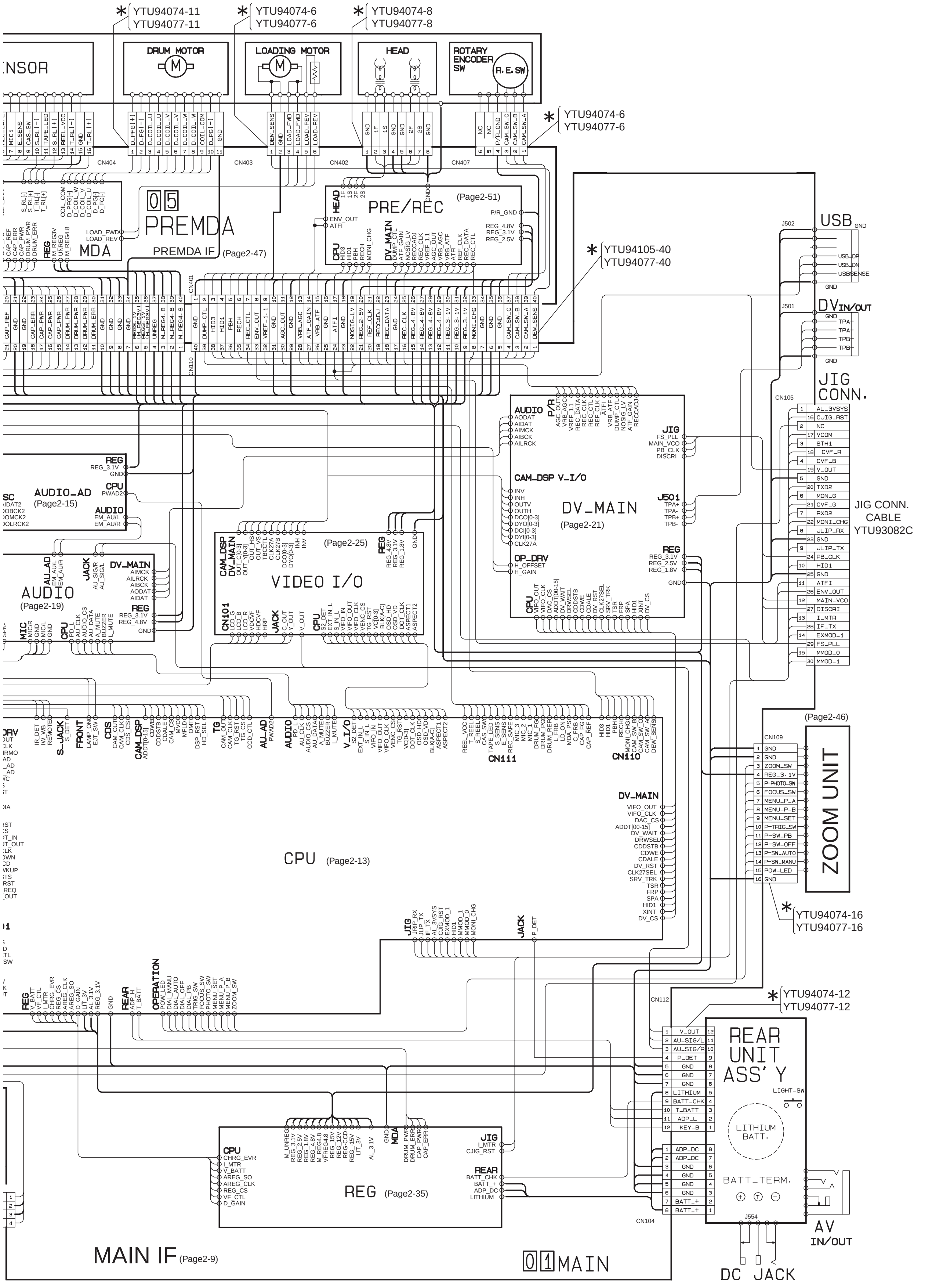
LAST NO	VACANT NO
R	
C	
D	
Q	
L	

■ BOARD INTERCONNECTION (GR-D73)



YTU94074-20 *
YTU94077-20
CN107
04 CCD
(Page2-45)
CN5001
OP BLOCK
CAPSTAN MOTOR
MECHA
SENSO
YTU94074-18 *
YTU94077-18
YTU94074-16 *
YTU94077-16
CN405
CN406
YTU94074-24 *
YTU94077-24
CN108
TG
(Page2-33)
(Page2-49)
* YTU94105-40
YTU94077-40
CN408
CN111
OP DRIVER
(OP DRV)
(Page2-31)
CAM_DSP
(Page2-29)
W_Sens
IW_WB
IR_DET
REMOTE
RCU(IR SENSOR)
USB
(Page2-39)
J502
DSC
(Page2-37)
06
CN9001
Front
Light_LED
EJECT
(Page2-46)
CN102
CN103
* YTU94074-10
YTU94077-10
02 MONI-C
(Page2-41)
SD/MMC
8MB
MultiMediaCard
* YTU94074-6
YTU94077-6
CN766
CN765
CN762
CN761
SENSOR
(Page2-43)
BL
LCD(MONITOR) PANEL
* YTU94074-16
YTU94077-16
03 BL2.5
CN7601
CN7602
CN7603
MONITOR
S IN/OUT
DECK OPE
NIGHT
BACKLIGHT
INFO
INDEX
VIDEO/MEMORY
OP_DRV
DSC
CN101
AU
CN101
* YTU94105-40
YTU94077-40
CN763
* YTU94074-20
YTU94077-20
CN7001
SPEAKER
SPK-
SPK+
C_VF
(Page2-53,54)
CN7002
CN7002
CN106
MIC
LCD(C-VF) MODULE
LCD(C-VF) MODULE
(K TYPE)
(S TYPE)

NOTE) :The number of patch cords are indicated by inter connected.



*YTU94074-11 YTU94077-11
*YTU94074-6 YTU94077-6
*YTU94074-8 YTU94077-8
NSOR
DRUM MOTOR
LOADING MOTOR
HEAD
ROTARY ENCODER SW
R.E.SW
*YTU94074-6 YTU94077-6
CN404
CN403
CN402
CN407
05 PREMDA
MDA
PREMDA IF (Page2-47)
PRE/REC (Page2-51)
*YTU94105-40 YTU94077-40
USB
J502
DV IN/OUT
J501
JIG CONN.
CN105
JIG CONN. CABLE YTU93082C
CN401
CN110
AUDIO_AD (Page2-15)
AUDIO (Page2-19)
VIDEO I/O (Page2-25)
DV_MAIN (Page2-21)
CPU (Page2-13)
CN111
CN110
(Page2-46)
CN109
ZOOM UNIT
*YTU94074-16 YTU94077-16
*YTU94074-12 YTU94077-12
CN112
REAR UNIT ASS' Y
LITHIUM BATT.
LIGHT_SW
BATT_TERM.
CN104
J554
AV IN/OUT
DC JACK
REG (Page2-35)
MAIN IF (Page2-9)
01 MAIN

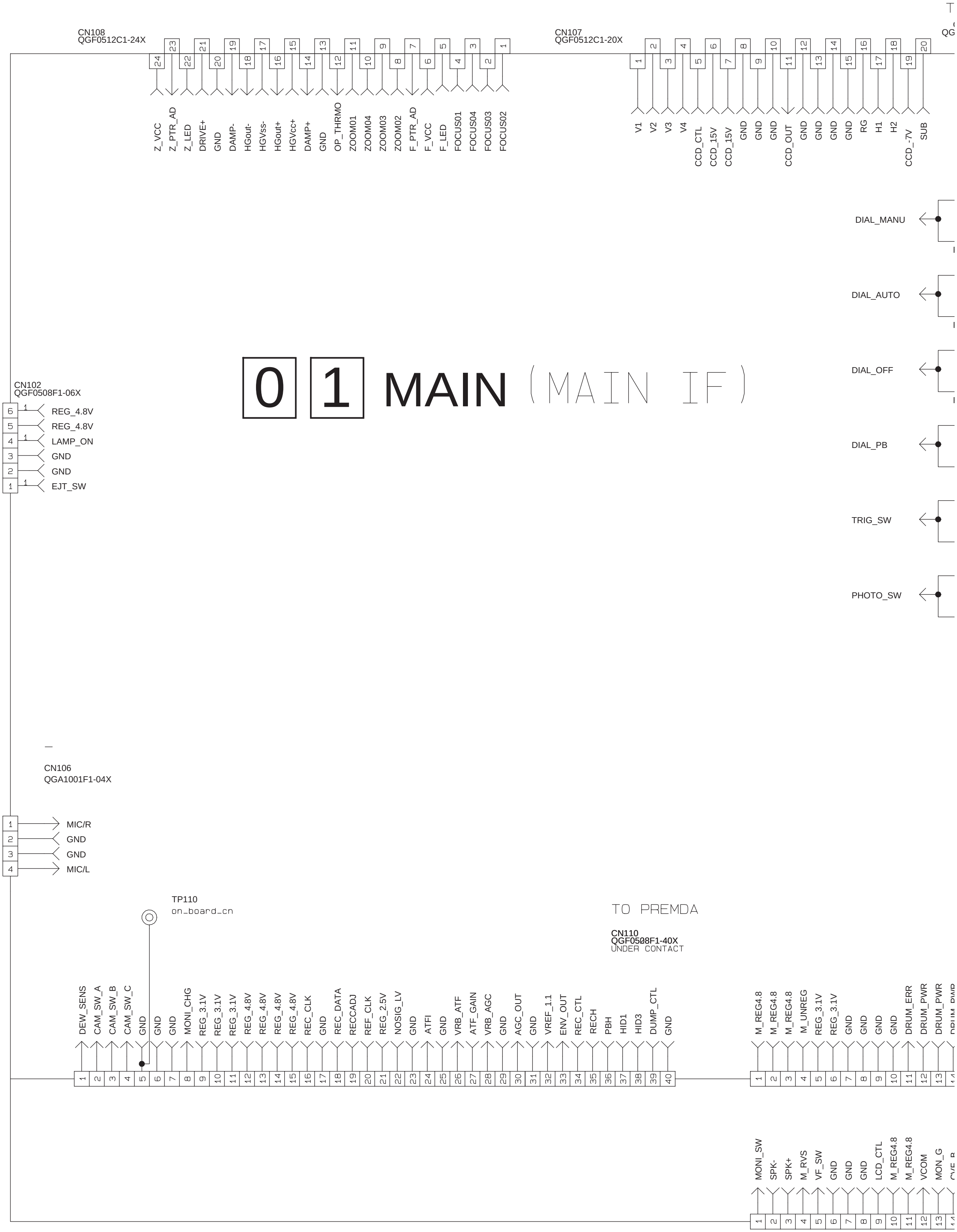
NOTES:UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN μF.

ELECTROLYTIC
CERAMIC
MYLER
NON POLAR

LAST NO	VACANT NO
R	
C	
D	
Q	
L	

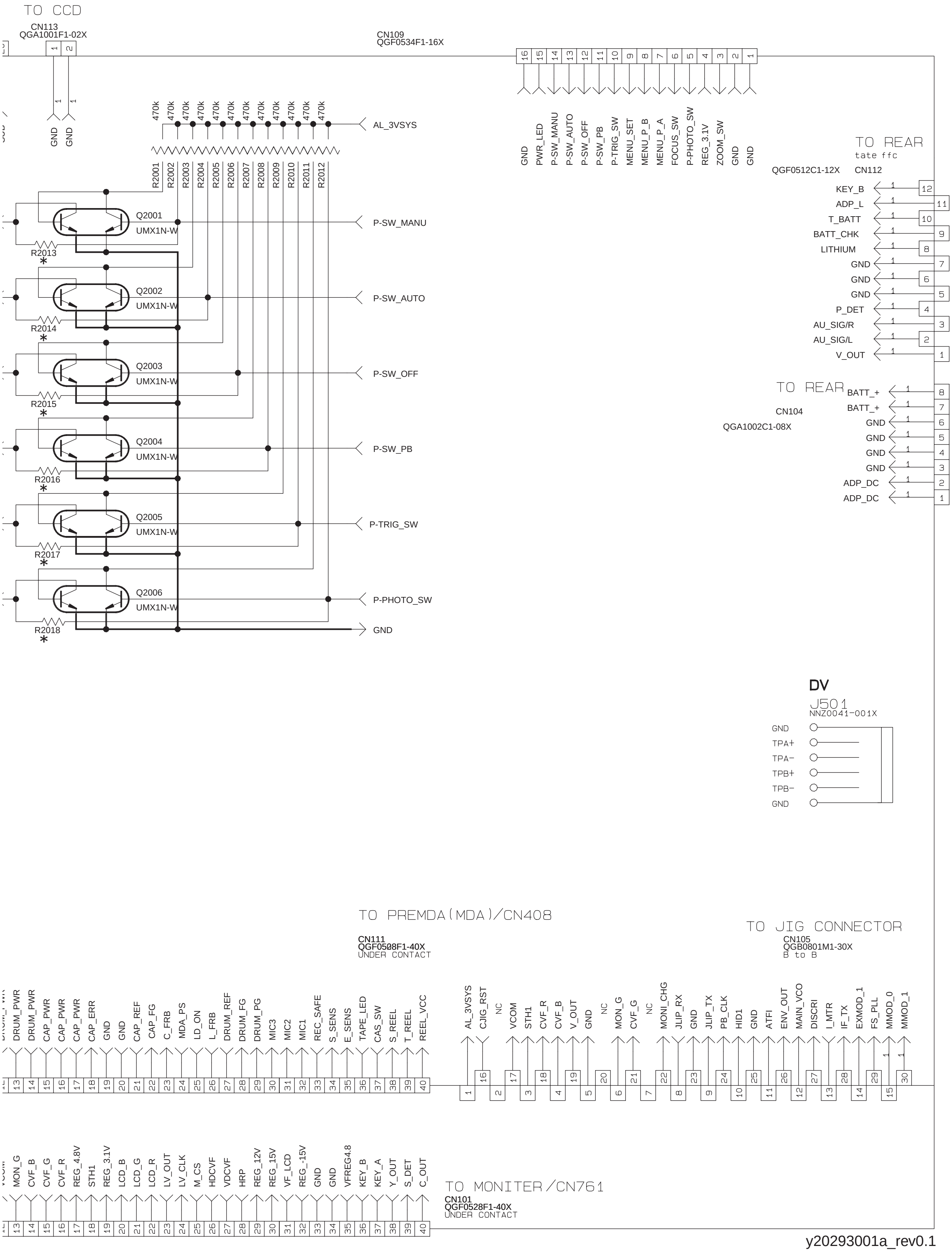
y10397001a_rev0.2

■ MAIN(MAIN IF) SCHEMATIC DIAGRAM (GR-D33)



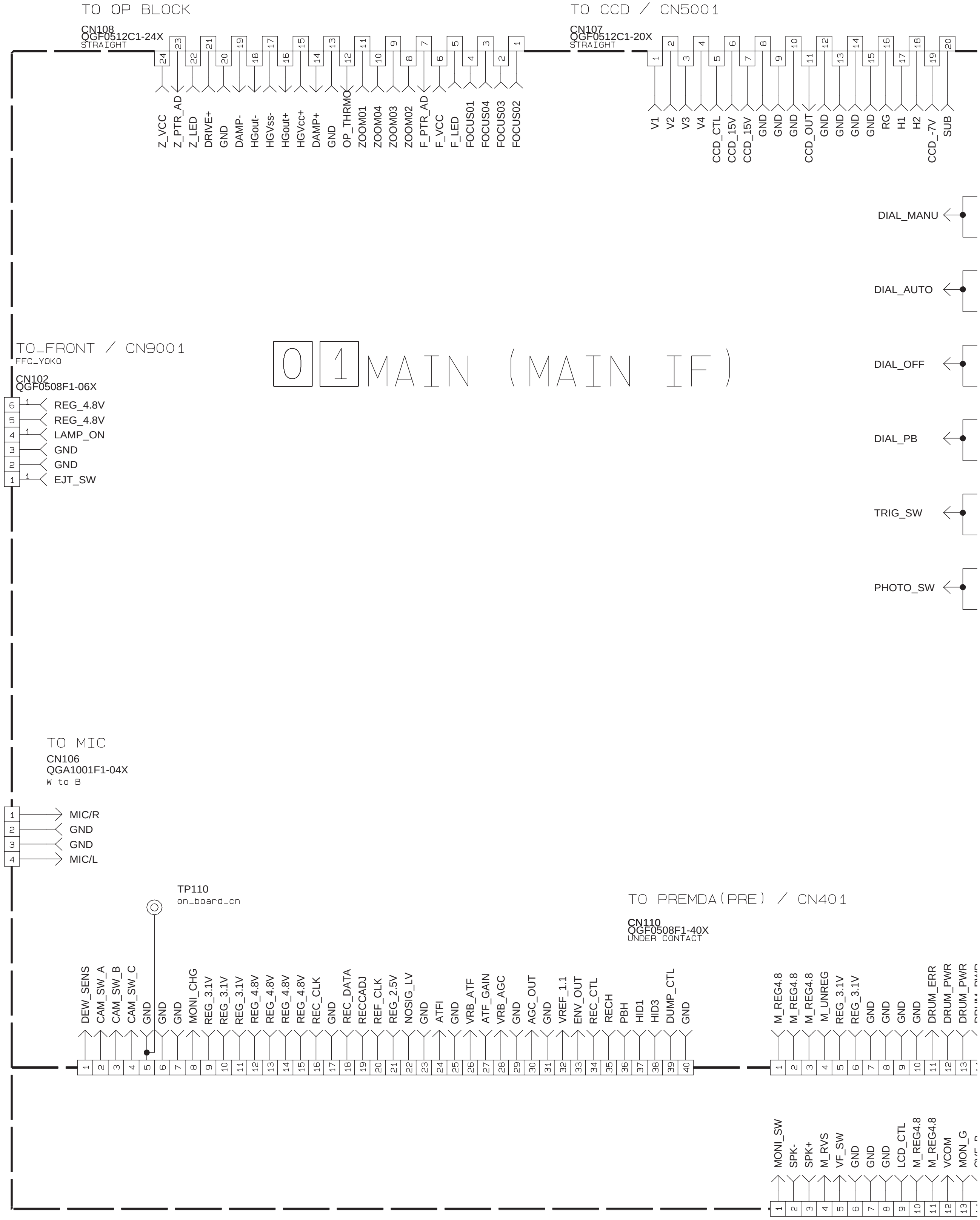
CN108
QGF0512C1-24X
Z_VCC
Z_PTR_AD
Z_LED
DRIVE+
GND
DAMP-
HGout-
HGVss-
HGout+
HGVcc+
DAMP+
GND
OP_THRMO
ZOOM01
ZOOM04
ZOOM03
ZOOM02
F_PTR_AD
F_VCC
F_LED
FOCUS01
FOCUS04
FOCUS03
FOCUS02
CN107
QGF0512C1-20X
V1
V2
V3
V4
CCD_CTL
CCD_15V
CCD_15V
GND
GND
GND
CCD_OUT
GND
GND
GND
GND
RG
H1
H2
CCD_-7V
SUB
DIAL_MANU
DIAL_AUTO
DIAL_OFF
DIAL_PB
TRIG_SW
PHOTO_SW
01 MAIN (MAIN IF)
CN102
QGF0508F1-06X
REG_4.8V
REG_4.8V
LAMP_ON
GND
GND
EJT_SW
CN106
QGA1001F1-04X
MIC/R
GND
GND
MIC/L
TP110
on_board_cn
TO PREMDA
CN110
QGF0508F1-40X
UNDER CONTACT
DEW_SENS
CAM_SW_A
CAM_SW_B
CAM_SW_C
GND
GND
GND
MONI_CHG
REG_3.1V
REG_3.1V
REG_3.1V
REG_4.8V
REG_4.8V
REG_4.8V
REG_4.8V
REC_CLK
GND
REC_DATA
RECCADJ
REF_CLK
REG_2.5V
NOSIG_LV
GND
ATFI
GND
VRB_ATF
ATF_GAIN
VRB_AGC
GND
AGC_OUT
GND
VREF_1.1
ENV_OUT
REC_CTL
RECH
PBH
HID1
HID3
DUMP_CTL
GND
M_REG4.8
M_REG4.8
M_REG4.8
M_UNREG
REG_3.1V
REG_3.1V
GND
GND
GND
GND
DRUM_ERR
DRUM_PWR
DRUM_PWR
MONI_SW
SPK-
SPK+
M_RVS
VF_SW
GND
GND
GND
LCD_CTL
M_REG4.8
M_REG4.8
VCOM
MON_G

NOTE : The parts with marked (∗) is not used.


TO CCD
CN113
QGA1001F1-02X
GND
GND
CN109
QGF0534F1-16X
GND
PWR_LED
P-SW_MANU
P-SW_AUTO
P-SW_OFF
P-SW_PB
P-TRIG_SW
MENU_SET
MENU_P_B
MENU_P_A
FOCUS_SW
P-PHOTO_SW
REG_3.1V
ZOOM_SW
GND
GND
470k
AL_3VSYS
R2001
R2002
R2003
R2004
R2005
R2006
R2007
R2008
R2009
R2010
R2011
R2012
Q2001
UMX1N-W
R2013
P-SW_MANU
Q2002
UMX1N-W
R2014
P-SW_AUTO
Q2003
UMX1N-W
R2015
P-SW_OFF
Q2004
UMX1N-W
R2016
P-SW_PB
Q2005
UMX1N-W
R2017
P-TRIG_SW
Q2006
UMX1N-W
R2018
P-PHOTO_SW
GND
TO REAR
tate ffc
QGF0512C1-12X
CN112
KEY_B
ADP_L
T_BATT
BATT_CHK
LITHIUM
GND
GND
GND
P_DET
AU_SIG/R
AU_SIG/L
V_OUT
TO REAR
CN104
QGA1002C1-08X
BATT_+
BATT_+
GND
GND
GND
GND
ADP_DC
ADP_DC
DV
J501
NNZ0041-001X
GND
TPA+
TPA-
TPB+
TPB-
GND
TO PREMDA(MDA)/CN408
CN111
QGF0528F1-40X
UNDER CONTACT
DRUM_PWR
DRUM_PWR
CAP_PWR
CAP_PWR
CAP_PWR
CAP_ERR
GND
GND
CAP_REF
CAP_FG
C_FRB
MDA_PS
LD_ON
L_FRB
DRUM_REF
DRUM_FG
DRUM_PG
MIC3
MIC2
MIC1
REC_SAFE
S_SENS
E_SENS
TAPE_LED
CAS_SW
S_REEL
T_REEL
REEL_VCC
TO JIG CONNECTOR
CN105
QGB0801M1-30X
B to B
AL_3VSYS
CJIG_RST
NC
VCOM
STH1
CVF_R
CVF_B
V_OUT
GND
NC
MON_G
CVF_G
NC
MONI_CHG
JLIP_RX
GND
JLIP_TX
PB_CLK
HID1
GND
ATFI
ENV_OUT
MAIN_VCO
DISCRI
I_MTR
IF_TX
EXMOD_1
FS_PLL
MMOD_0
MMOD_1
MON_G
CVF_B
CVF_G
CVF_R
REG_4.8V
STH1
REG_3.1V
LCD_B
LCD_G
LCD_R
LV_OUT
LV_CLK
M_CS
HDCVF
VDCVF
HRP
REG_12V
REG_15V
VF_LCD
REG_-15V
GND
GND
VFREG4.8
KEY_B
KEY_A
Y_OUT
S_DET
C_OUT
TO MONITER/CN761
CN101
QGF0528F1-40X
UNDER CONTACT

y20293001a_rev0.1

■ MAIN(MAIN IF) SCHEMATIC DIAGRAM (GR-D73)

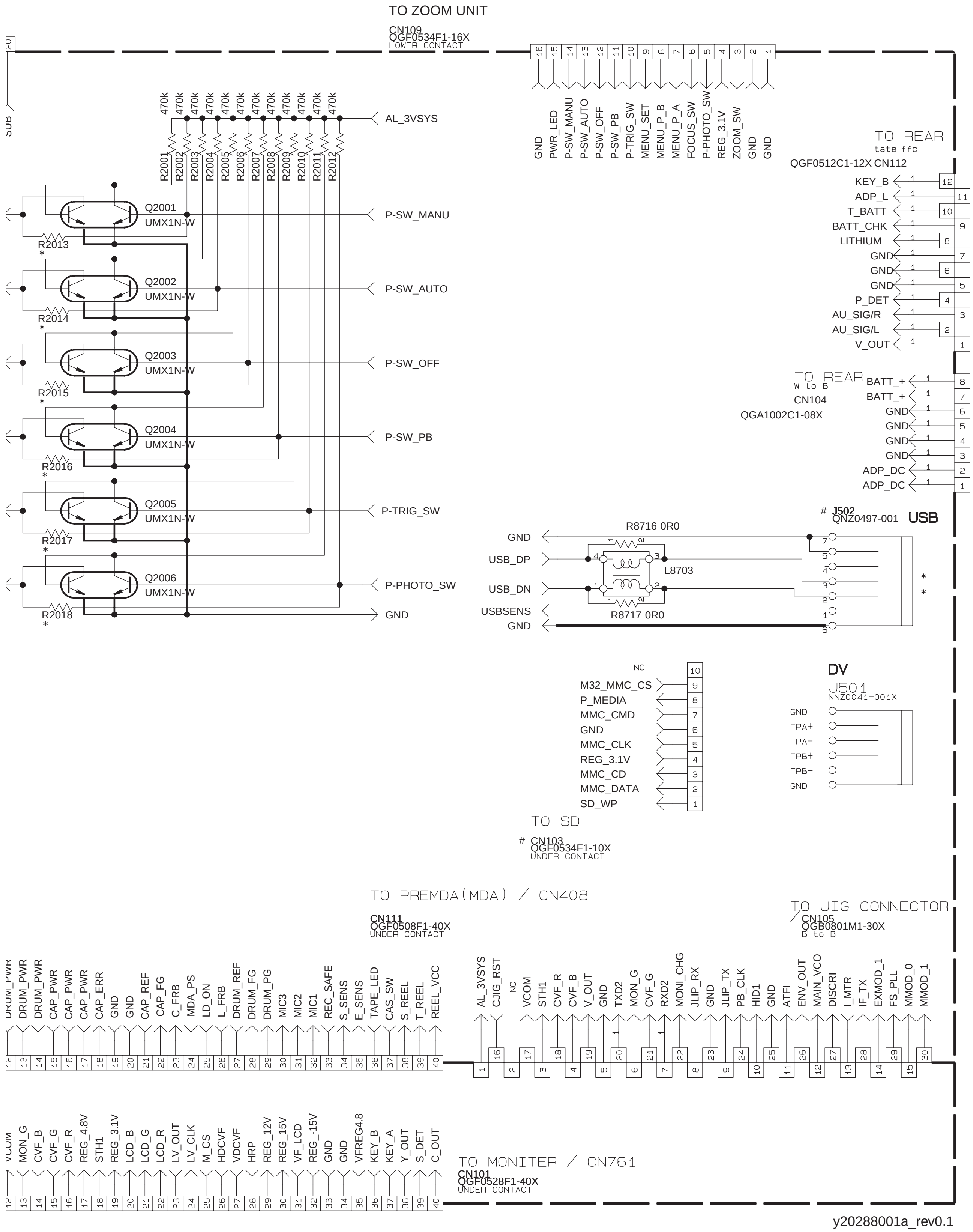


TO OP BLOCK
CN108
QGF0512C1-24X
STRAIGHT
Z_VCC
Z_PTR_AD
Z_LED
DRIVE+
GND
DAMP-
HGout-
HGVss-
HGout+
HGVcc+
DAMP+
GND
OP_THRMO
ZOOM01
ZOOM04
ZOOM03
ZOOM02
F_PTR_AD
F_VCC
F_LED
FOCUS01
FOCUS04
FOCUS03
FOCUS02
TO CCD / CN5001
CN107
QGF0512C1-20X
STRAIGHT
V1
V2
V3
V4
CCD_CTL
CCD_15V
CCD_15V
GND
GND
GND
CCD_OUT
GND
GND
GND
GND
RG
H1
H2
CCD_-7V
SUB
DIAL_MANU
DIAL_AUTO
DIAL_OFF
DIAL_PB
TRIG_SW
PHOTO_SW
TO_FRONT / CN9001
FFC_YOKO
CN102
QGF0508F1-06X
REG_4.8V
REG_4.8V
LAMP_ON
GND
GND
EJT_SW
01 MAIN (MAIN IF)
TO MIC
CN106
QGA1001F1-04X
W to B
MIC/R
GND
GND
MIC/L
TP110
on_board_cn
TO PREMDA(PRE) / CN401
CN110
QGF0508F1-40X
UNDER CONTACT
DEW_SENS
CAM_SW_A
CAM_SW_B
CAM_SW_C
GND
GND
GND
MONI_CHG
REG_3.1V
REG_3.1V
REG_3.1V
REG_4.8V
REG_4.8V
REG_4.8V
REG_4.8V
REC_CLK
GND
REC_DATA
RECCADJ
REF_CLK
REG_2.5V
NOSIG_LV
GND
ATFI
GND
VRB_ATF
ATF_GAIN
VRB_AGC
GND
AGC_OUT
GND
VREF_1.1
ENV_OUT
REC_CTL
RECH
PBH
HID1
HID3
DUMP_CTL
GND
M_REG4.8
M_REG4.8
M_REG4.8
M_UNREG
REG_3.1V
REG_3.1V
GND
GND
GND
GND
DRUM_ERR
DRUM_PWR
DRUM_PWR
MONI_SW
SPK-
SPK+
M_RVS
VF_SW
GND
GND
GND
LCD_CTL
M_REG4.8
M_REG4.8
VCOM
MON_G

NOTE : The parts with marked (∗) is not used.

NOTES:UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN µF.

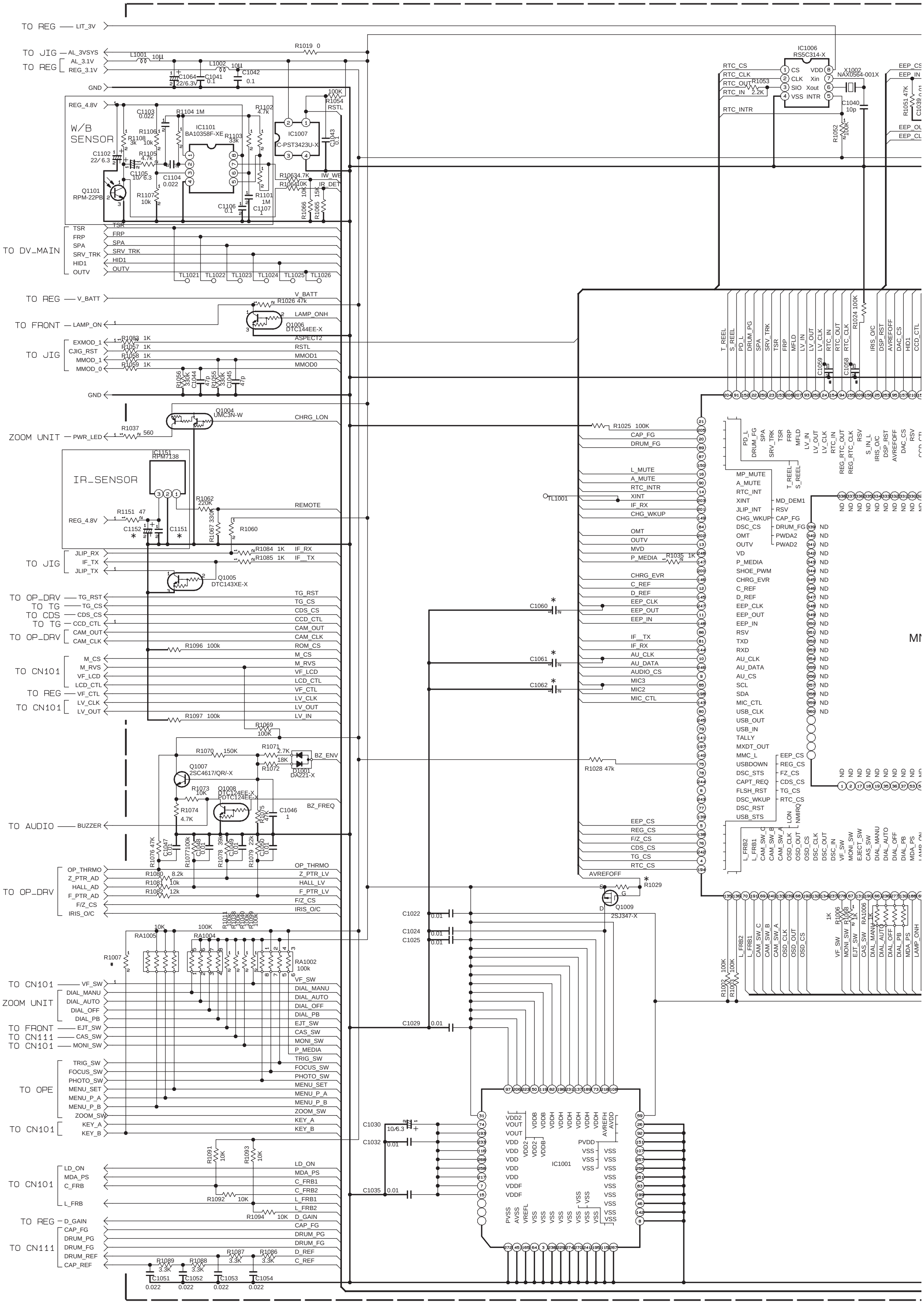
ELECTROLYTIC
CERAMIC
MY MYLER
N NON POLAR


TO ZOOM UNIT
CN109
QGF0534F1-16X
LOWER CONTACT
GND
PWR_LED
P-SW_MANU
P-SW_AUTO
P-SW_OFF
P-SW_PB
P-TRIG_SW
MENU_SET
MENU_P_B
MENU_P_A
FOCUS_SW
P-PHOTO_SW
REG_3.1V
ZOOM_SW
GND
GND
AL_3VSYS
470k
R2001
R2002
R2003
R2004
R2005
R2006
R2007
R2008
R2009
R2010
R2011
R2012
Q2001
UMX1N-W
Q2002
Q2003
Q2004
Q2005
Q2006
R2013
R2014
R2015
R2016
R2017
R2018
P-SW_MANU
P-SW_AUTO
P-SW_OFF
P-SW_PB
P-TRIG_SW
P-PHOTO_SW
GND
TO REAR
tate ffc
QGF0512C1-12X CN112
KEY_B
ADP_L
T_BATT
BATT_CHK
LITHIUM
GND
GND
GND
P_DET
AU_SIG/R
AU_SIG/L
V_OUT
TO REAR
W to B
CN104
QGA1002C1-08X
BATT_+
BATT_+
GND
GND
GND
GND
ADP_DC
ADP_DC
# J502
QNZ0497-001
USB
R8716 0R0
L8703
R8717 0R0
GND
USB_DP
USB_DN
USBSENS
GND
NC
M32_MMC_CS
P_MEDIA
MMC_CMD
GND
MMC_CLK
REG_3.1V
MMC_CD
MMC_DATA
SD_WP
TO SD
# CN103
QGF0534F1-10X
UNDER CONTACT
DV
J501
NNZ0041-001X
GND
TPA+
TPA-
TPB+
TPB-
GND
TO PREMDA(MDA) / CN408
CN111
QGF0508F1-40X
UNDER CONTACT
DRUM_PWR
DRUM_PWR
DRUM_PWR
CAP_PWR
CAP_PWR
CAP_PWR
CAP_ERR
GND
GND
CAP_REF
CAP_FG
C_FRB
MDA_PS
LD_ON
L_FRB
DRUM_REF
DRUM_FG
DRUM_PG
MIC3
MIC2
MIC1
REC_SAFE
S_SENS
E_SENS
TAPE_LED
CAS_SW
S_REEL
T_REEL
REEL_VCC
TO JIG CONNECTOR
/ CN105
QGB0801M1-30X
B to B
AL_3VSYS
CJIG_RST
NC
VCOM
STH1
CVF_R
CVF_B
V_OUT
GND
TXD2
MON_G
CVF_G
RXD2
MONI_CHG
JLIP_RX
GND
JLIP_TX
PB_CLK
HID1
GND
ATFI
ENV_OUT
MAIN_VCO
DISCRI
I_MTR
IF_TX
EXMOD_1
FS_PLL
MMOD_0
MMOD_1
VCOM
MON_G
CVF_B
CVF_G
CVF_R
REG_4.8V
STH1
REG_3.1V
LCD_B
LCD_G
LCD_R
LV_OUT
LV_CLK
M_CS
HDCVF
VDCVF
HRP
REG_12V
REG_15V
VF_LCD
REG_-15V
GND
GND
VFREG4.8
KEY_B
KEY_A
Y_OUT
S_DET
C_OUT
TO MONITER / CN761
CN101
QGF0528F1-40X
UNDER CONTACT

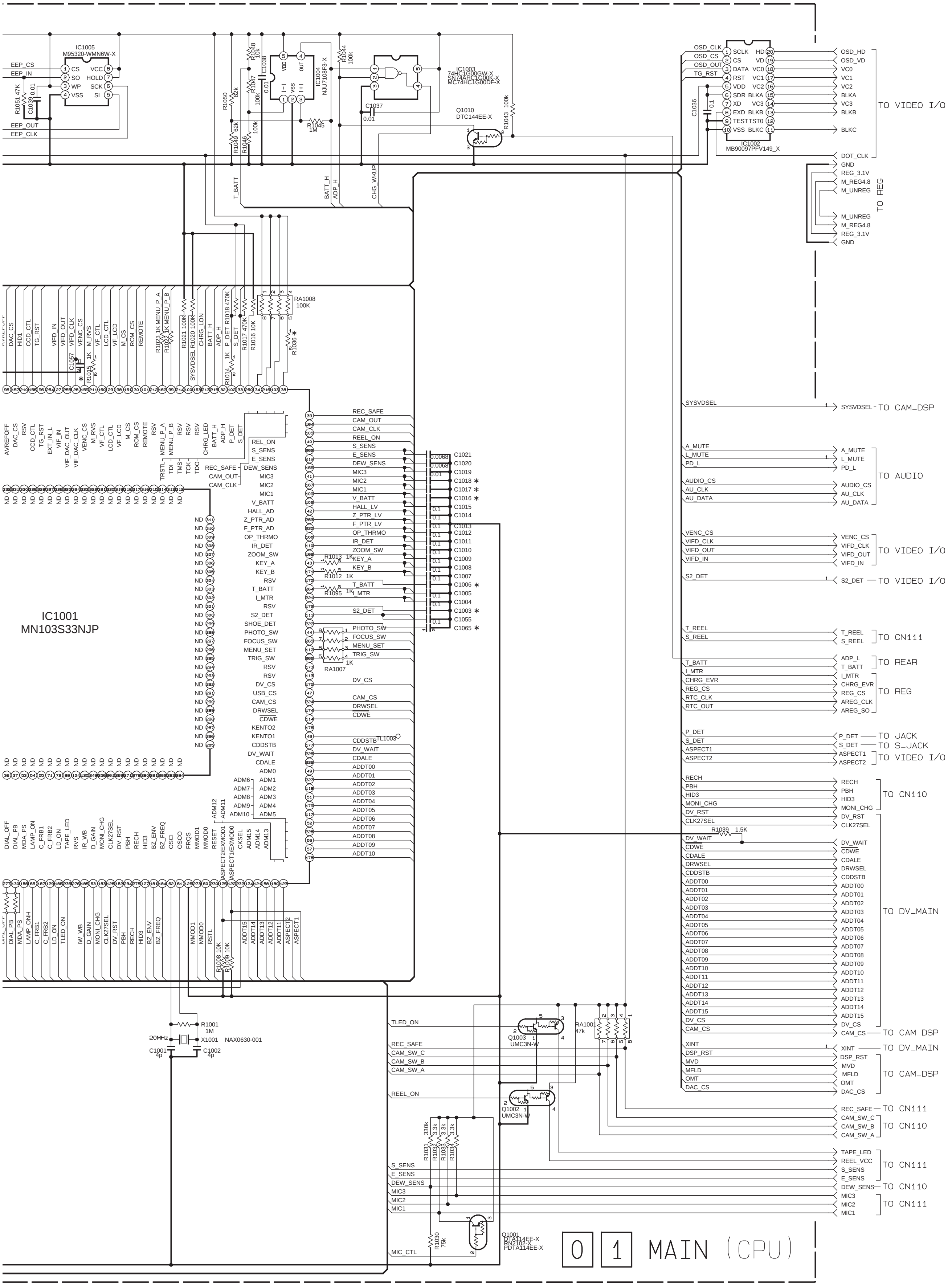
y20288001a_rev0.1

LAST NO		VACANT NO
R		
C		
D		
Q		
L		

■ MAIN(CPU) SCHEMATIC DIAGRAM (GR-D33)


TO REG
LIT_3V
TO JIG
AL_3VSYS
AL_3.1V
TO REG
REG_3.1V
GND
L1001 10μ
L1002 10μ
C1064 22/6.3V
C1041 0.1
C1042 0.1
R1019 0
REG_4.8V
W/B SENSOR
C1103 0.022
R1104 1M
R1102 4.7k
IC1101 BA10358F-XE
R1106
R1108 3k
10k
R1103 33k
C1102 22/6.3
R1105 4.7k
C1105 10/6.3
C1104 0.022
Q1101 RPM-22PB
R1107 10k
C1106 0.1
R1101 1M
C1107 1
IC1007 C-PST3423U-X
R1054 100K
RSTL
C1043 0.1
R1063 4.7K
R1064 10K
IW_WE
IR_DET
R1066 10K
R1065 15K
IC1006 RS5C314-X
RTC_CS
RTC_CLK
RTC_OUT
RTC_IN
RTC_INTR
R1053 2.2K
CS
CLK
SIO
VSS
VDD
Xin
Xout
INTR
X1002 NAX0564-001X
C1040 10p
R1052 100K
R1051 47K
C1039
EEP_CS
EEP_IN
EEP_OUT
EEP_CLK
TO DV_MAIN
TSR
FRP
SPA
SRV_TRK
HID1
OUTV
TL1021
TL1022
TL1023
TL1024
TL1025
TL1026
TO REG
V_BATT
R1026 47k
TO FRONT
LAMP_ON
LAMP_ONH
Q1006 DTC144EE-X
ASPECT2
TO JIG
EXMOD_1
CJIG_RST
MMOD_1
MMOD_0
R1083 1K
R1057 1K
R1058 1K
R1059 1K
RSTL
MMOD1
MMOD0
R1056 330K
C1044 47p
R1055 330K
C1045 47p
GND
Q1004 UMC3N-W
CHRG_LON
ZOOM UNIT
PWR_LED
R1037 560
IC1151 RPM7138
IR_SENSOR
R1062 220K
REMOTE
R1151 47
REG_4.8V
C1152
C1151
R1067 330K
R1060
TO JIG
JLIP_RX
IF_TX
JLIP_TX
R1084 1K
R1085 1K
IF_RX
IF_TX
Q1005 DTC143XE-X
TO OP_DRV
TO TG
TO CDS
TO TG
TO OP_DRV
TG_RST
TG_CS
CDS_CS
CCD_CTL
CAM_OUT
CAM_CLK
R1096 100k
ROM_CS
TO CN101
M_CS
M_RVS
VF_LCD
LCD_CTL
TO REG
VF_CTL
TO CN101
LV_CLK
LV_OUT
LV_IN
R1097 100k
R1069 100K
R1070 150K
R1071 2.7K
18K
R1072
BZ_ENV
D1001 DA221-X
Q1007 2SC4617/QR/-X
R1073 10K
Q1008 DTC124EE-X
R1074 4.7K
BZ_FREQ
C1046 1
TO AUDIO
BUZZER
R1076 47K
C1047
R1077 100k
C1048
R1078 39k
C1049
R1079 22k
C1050
TO OP_DRV
OP_THRMO
Z_PTR_AD
HALL_AD
F_PTR_AD
F/Z_CS
IRIS_O/C
R1080 8.2k
R1081 10k
R1082 12k
Z_PTR_LV
HALL_LV
F_PTR_LV
RA1005 10K
RA1004 100K
RA1002 100k
R1007
TO CN101
VF_SW
ZOOM UNIT
DIAL_MANU
DIAL_AUTO
DIAL_OFF
DIAL_PB
TO FRONT
EJT_SW
TO CN111
CAS_SW
TO CN101
MONI_SW
P_MEDIA
TO OPE
TRIG_SW
FOCUS_SW
PHOTO_SW
MENU_SET
MENU_P_A
MENU_P_B
ZOOM_SW
TO CN101
KEY_A
KEY_B
R1091 10K
R1093 10K
TO CN101
LD_ON
MDA_PS
C_FRB
L_FRB
C_FRB1
C_FRB2
L_FRB1
L_FRB2
R1092 10K
R1094 10K
TO REG
D_GAIN
TO CN111
CAP_FG
DRUM_PG
DRUM_FG
DRUM_REF
CAP_REF
D_REF
C_REF
R1089 3.3K
R1088 3.3K
R1087 3.3K
R1086 3.3K
C1051 0.022
C1052 0.022
C1053 0.022
C1054 0.022
R1025 100K
CAP_FG
DRUM_FG
L_MUTE
A_MUTE
RTC_INTR
XINT
IF_RX
CHG_WKUP
TL1001
OMT
OUTV
MVD
P_MEDIA
R1035 1K
CHRG_EVR
C_REF
D_REF
EEP_CLK
EEP_OUT
EEP_IN
C1060
C1061
C1062
IF_TX
AU_CLK
AU_DATA
AUDIO_CS
MIC3
MIC2
MIC_CTL
R1028 47k
EEP_CS
REG_CS
F/Z_CS
CDS_CS
TG_CS
RTC_CS
AVREFOFF
R1029
Q1009 2SJ347-X
C1022 0.01
C1024 0.01
C1025 0.01
C1029 0.01
C1030 10/6.3
C1032 0.01
C1035 0.01
IC1001
VDD2
VOUT
VDD
VDDF
VDDH
VDDB
AVREFH
AVDD
PVDD
VSS
PVSS
AVSS
VREFL
T_REEL
S_REEL
PD_L
DRUM_PG
SPA
SRV_TRK
TSR
FRP
MFLD
LV_IN
LV_OUT
LV_CLK
RTC_IN
RTC_OUT
RTC_CLK
R1024 100K
IRIS_O/C
DSP_RST
AVREFOFF
DAC_CS
HID1
CCD_CTL
C1059
C1058
MP_MUTE
A_MUTE
RTC_INT
XINT
JLIP_INT
CHG_WKUP
DSC_CS
OMT
OUTV
VD
P_MEDIA
SHOE_PWM
CHRG_EVR
C_REF
D_REF
EEP_CLK
EEP_OUT
EEP_IN
RSV
TXD
RXD
AU_CLK
AU_DATA
AU_CS
SCL
SDA
MIC_CTL
USB_CLK
USB_OUT
USB_IN
TALLY
MXDT_OUT
MMC_L
USBDOWN
DSC_STS
CAPT_REQ
FLSH_RST
DSC_WKUP
DSC_RST
USB_STS
MD_DEM1
RSV
CAP_FG
DRUM_FG
PWDA2
PWAD2
EEP_CS
REG_CS
FZ_CS
CDS_CS
TG_CS
RTC_CS
REG_RTC_OUT
REG_RTC_CLK
S_IN_L
ND
LON
NMRQ
L_FRB2
L_FRB1
CAM_SW_C
CAM_SW_B
CAM_SW_A
OSD_CLK
OSD_OUT
OSD_CS
DSC_CLK
DSC_OUT
DSC_IN
VF_SW
MONI_SW
EJECT_SW
EJT_SW
CAS_SW
DIAL_MANU
DIAL_AUTO
DIAL_OFF
DIAL_PB
MDA_PS
LAMP_ONH
R1006 1K
R1008 1K
RA1006
R1002 100K
R1001 100K
MI

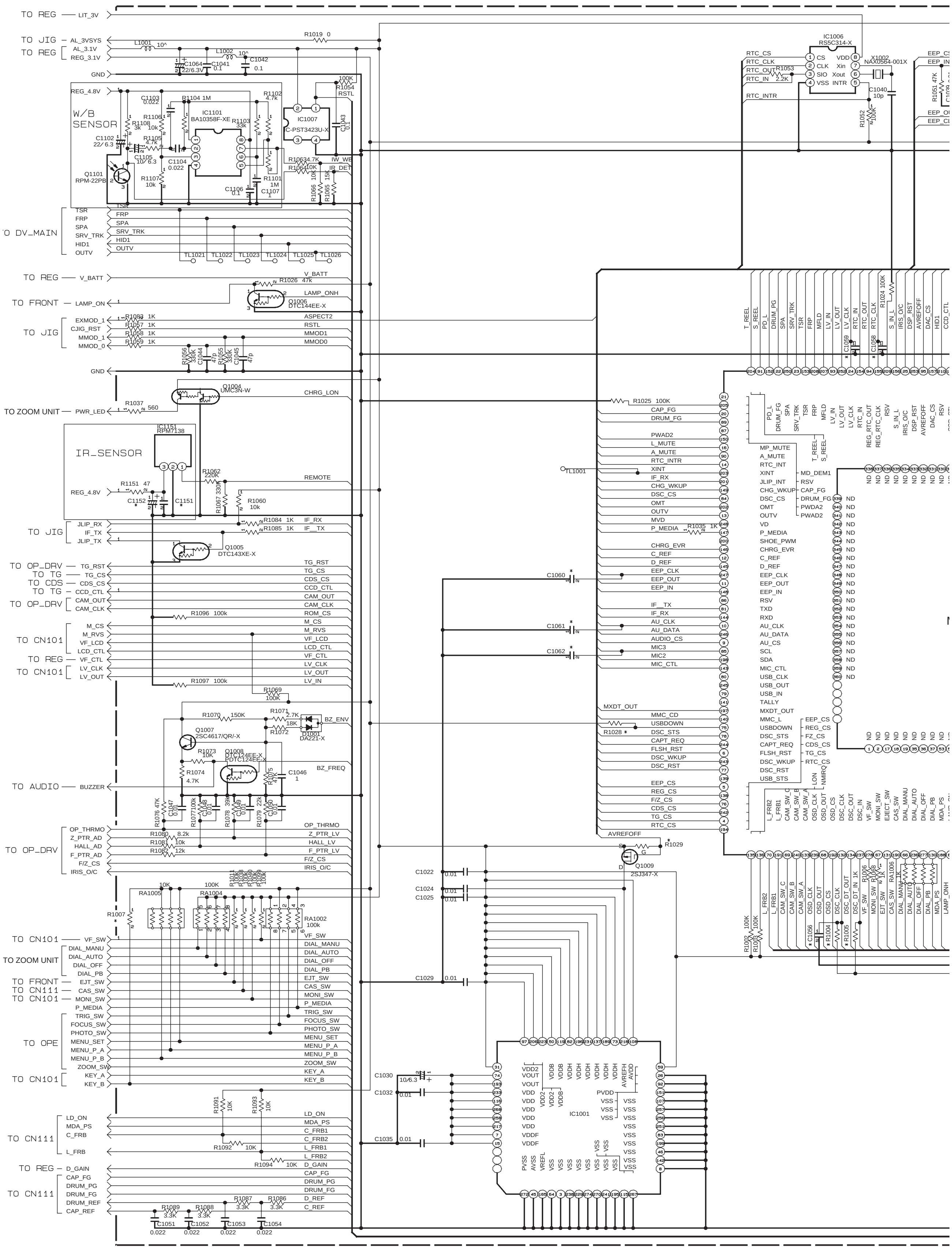
NOTE : The parts with marked (∗) is not used.



0 1 MAIN (CPU)
IC1001
MN103S33NJP
IC1005
M95320-WMN6W-X
EEP_CS
EEP_IN
EEP_OUT
EEP_CLK
CS
SO
WP
VSS
VCC
HOLD
SCK
SI
R1051 47K
C1039 0.01
IC1004
NJU7108F3-X
IC1003
74HC1G00GW-X
SN74AHC1G00DCK-X
MC74HC1G00DF-X
C1038 0.01
C1037 0.01
R1044 100k
R1045 1M
R1048 10k
R1047 100k
R1050 82k
R1049 62k
R1046 100k
R1043 100k
Q1010
DTC144EE-X
T_BATT
BATT_H
ADP_H
CHG_WKUP
IC1002
MB90097PFV149_X
OSD_CLK
OSD_CS
OSD_OUT
TG_RST
SCLK
CS
DATA
RST
VDD
SDR
XD
EXD
TEST
VSS
HD
VD
VC0
VC1
VC2
BLKA
VC3
BLKB
TST0
BLKC
C1036 0.1
OSD_HD
OSD_VD
VC0
VC1
VC2
BLKA
VC3
BLKB
BLKC
DOT_CLK
TO VIDEO I/O
GND
REG_3.1V
M_REG4.8
M_UNREG
M_UNREG
M_REG4.8
REG_3.1V
GND
TO REG
RA1008
100K
R1018 470K
R1017 470K
R1016 10K
R1036
R1021 100K
R1020 100K
R1023 1K
R1022 1K
R1015 1K
R1014 1K
C1057
MENU_P_A
MENU_P_B
SYSVDSEL
CHRG_LON
BATT_H
ADP_H
P_DET
S_DET
DAC_CS
HID1
CCD_CTL
TG_RST
VIFD_IN
VIFD_OUT
VIFD_CLK
VENC_CS
M_RVS
VF_CTL
LCD_CTL
VF_LCD
M_CS
ROM_CS
REMOTE
AVREFOFF
RSV
EXT_IN_L
VIF_IN
VIF_DAC_OUT
VIF_DAC_CLK
TRST
TDI
TMS
TCK
TDO
CHRG_LED
REC_SAFE
CAM_OUT
CAM_CLK
REEL_ON
S_SENS
E_SENS
DEW_SENS
MIC3
MIC2
MIC1
V_BATT
HALL_AD
HALL_LV
Z_PTR_AD
Z_PTR_LV
F_PTR_AD
F_PTR_LV
OP_THRMO
IR_DET
ZOOM_SW
KEY_A
KEY_B
RSV
T_BATT
I_MTR
S2_DET
SHOE_DET
PHOTO_SW
FOCUS_SW
MENU_SET
TRIG_SW
DV_CS
USB_CS
CAM_CS
DRWSEL
CDWE
KENTO2
KENTO1
CDDSTB
DV_WAIT
CDALE
ADM0
ADM1
ADM2
ADM3
ADM4
ADM5
ADM6
ADM7
ADM8
ADM9
ADM10
ADM11
ADM12
ADM13
ADM14
ADM15
ADDT00
ADDT01
ADDT02
ADDT03
ADDT04
ADDT05
ADDT06
ADDT07
ADDT08
ADDT09
ADDT10
ADDT11
ADDT12
ADDT13
ADDT14
ADDT15
TL1003
R1013 1K
R1012 1K
R1095 1K
RA1007
1K
C1021 0.0068
C1020 0.0068
C1019 0.01
C1018 *
C1017 *
C1016 *
C1015 0.1
C1014 0.1
C1013 0.1
C1012 0.1
C1011 0.1
C1010 0.1
C1009 0.1
C1008 0.1
C1007 0.1
C1006 *
C1005 0.1
C1004 0.1
C1003 *
C1055 0.1
C1065 *
ND
DIAL_OFF
DIAL_PB
MDA_PS
LAMP_ON
C_FRB1
C_FRB2
LD_ON
TAPE_LED
TLED_ON
RVS
IR_WB
IW_WB
D_GAIN
MONI_CHG
CLK27SEL
DV_RST
PBH
RECH
HID3
BZ_ENV
BZ_FREQ
OSCI
OSCO
FRQS
MMOD1
MMOD0
RESET
RSTL
ASPECT2/EXMOD1
ASPECT1/EXMOD0
CKSEL
ASPECT2
ASPECT1
R1008 10K
R1009 10K
R1001
1M
X1001
NAX0630-001
20MHz
C1001
4p
C1002
4p
SYSVDSEL
TO CAM_DSP
A_MUTE
L_MUTE
PD_L
AUDIO_CS
AU_CLK
AU_DATA
TO AUDIO
VENC_CS
VIFD_CLK
VIFD_OUT
VIFD_IN
TO VIDEO I/O
S2_DET
TO VIDEO I/O
T_REEL
S_REEL
TO CN111
T_BATT
I_MTR
ADP_L
T_BATT
TO REAR
CHRG_EVR
REG_CS
RTC_CLK
RTC_OUT
REG_CLK
AREG_CLK
AREG_SO
TO REG
P_DET
S_DET
ASPECT1
ASPECT2
TO JACK
TO S_JACK
TO VIDEO I/O
RECH
PBH
HID3
MONI_CHG
DV_RST
CLK27SEL
TO CN110
R1039 1.5K
DV_WAIT
CDWE
CDALE
DRWSEL
CDDSTB
TO DV_MAIN
DV_CS
CAM_CS
TO CAM DSP
XINT
TO DV_MAIN
DSP_RST
MVD
MFLD
OMT
DAC_CS
TO CAM_DSP
REC_SAFE
TO CN111
CAM_SW_C
CAM_SW_B
CAM_SW_A
TO CN110
TAPE_LED
REEL_VCC
S_SENS
E_SENS
TO CN111
DEW_SENS
TO CN110
MIC3
MIC2
MIC1
TO CN111
RA1001
47k
Q1003
UMC3N-W
Q1002
UMC3N-W
R1031 330k
R1032 3.3k
R1033 3.3k
R1034 3.3k
R1030
75k
MIC_CTL
Q1001
DTA114EE-X
RN2102-X
PDTA114EE-X

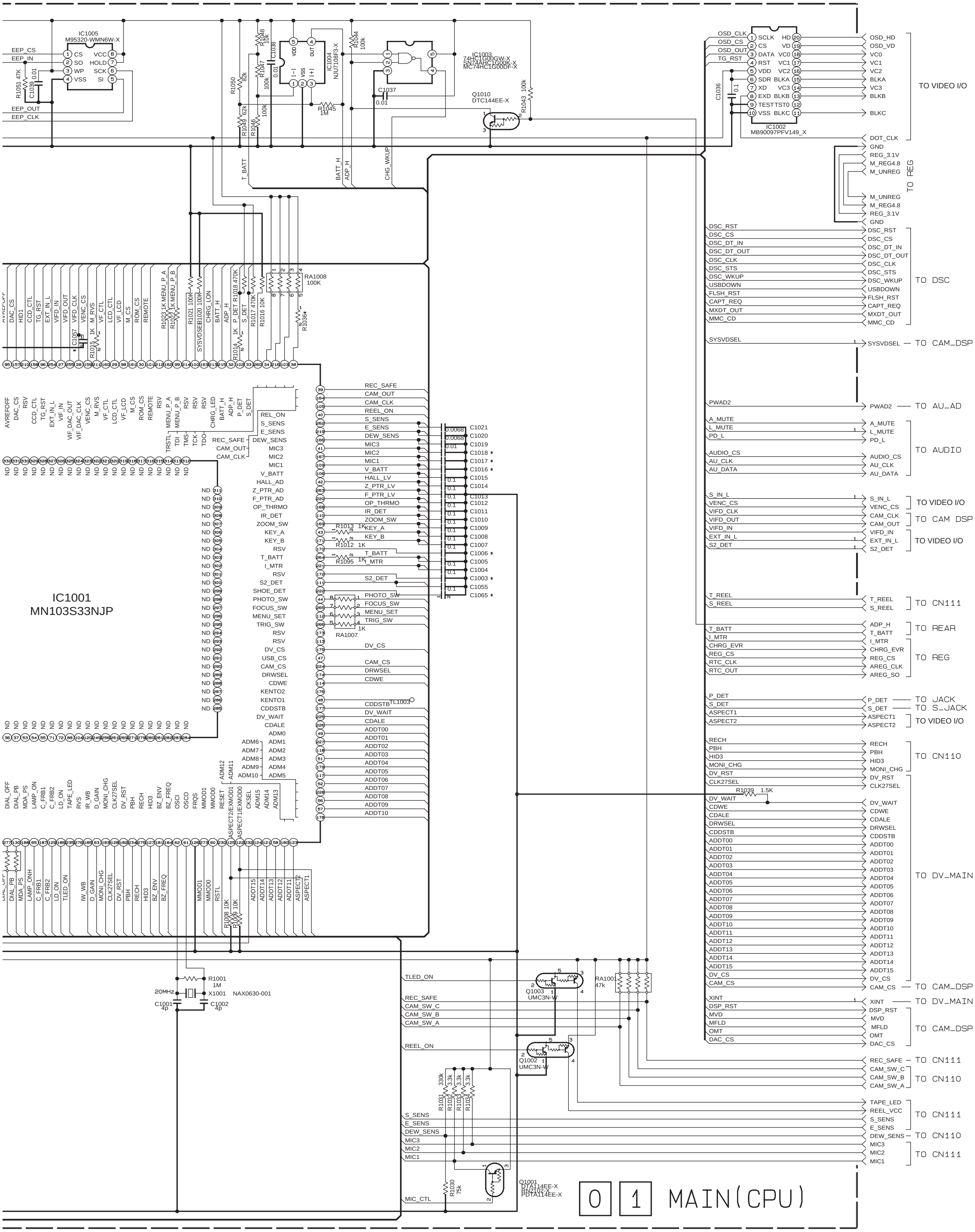
y10407001a_rev0.1

■ MAIN(CPU) SCHEMATIC DIAGRAM (GR-D73)



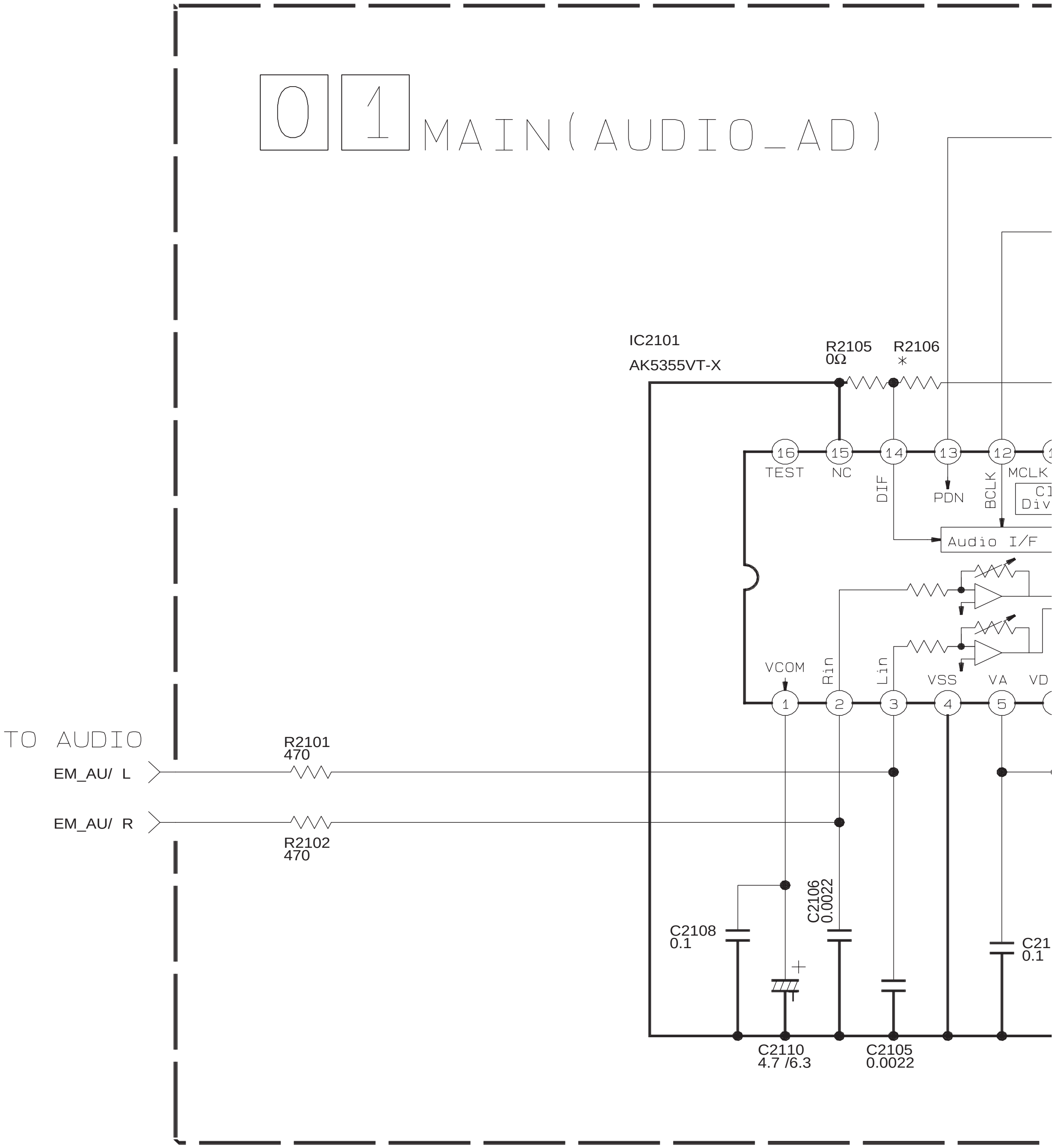
TO REG — LIT_3V
TO JIG — AL_3VSYS
TO REG — AL_3.1V
REG_3.1V
GND
REG_4.8V
W/B SENSOR
IC1101 BA10358F-XE
IC1007 C-PST3423U-X
Q1101 RPM-22PB
TO DV_MAIN
TSR
FRP
SPA
SRV_TRK
HID1
OUTV
TL1021
TL1022
TL1023
TL1024
TL1025
TL1026
TO REG — V_BATT
TO FRONT — LAMP_ON
Q1006 DTC144EE-X
TO JIG
EXMOD_1
CJIG_RST
MMOD_1
MMOD_0
Q1004 UMC3N-W
CHRG_LON
TO ZOOM UNIT — PWR_LED
IC1151 RPM7138
IR_SENSOR
REMOTE
TO JIG
JLIP_RX
IF_TX
JLIP_TX
Q1005 DTC143XE-X
TO OP_DRV — TG_RST
TO TG — TG_CS
TO CDS — CDS_CS
TO TG — CCD_CTL
TO OP_DRV — CAM_OUT
CAM_CLK
TO CN101
M_CS
M_RVS
VF_LCD
LCD_CTL
TO REG — VF_CTL
TO CN101
LV_CLK
LV_OUT
Q1007 2SC4617/QR/-X
Q1008 DTC124EE-X PDTC124EE-X
D1001 DA221-X
BZ_ENV
BZ_FREQ
TO AUDIO — BUZZER
TO OP_DRV
OP_THRMO
Z_PTR_AD
HALL_AD
F_PTR_AD
F/Z_CS
IRIS_O/C
RA1005
RA1004
RA1002
TO CN101 — VF_SW
TO ZOOM UNIT
DIAL_MANU
DIAL_AUTO
DIAL_OFF
DIAL_PB
TO FRONT — EJT_SW
TO CN111 — CAS_SW
TO CN101 — MONI_SW
TO OPE
P_MEDIA
TRIG_SW
FOCUS_SW
PHOTO_SW
MENU_SET
MENU_P_A
MENU_P_B
ZOOM_SW
TO CN101
KEY_A
KEY_B
TO CN111
LD_ON
MDA_PS
C_FRB
L_FRB
TO REG — D_GAIN
TO CN111
CAP_FG
DRUM_PG
DRUM_FG
DRUM_REF
CAP_REF
IC1006 RS5C314-X
RTC_CS
RTC_CLK
RTC_OUT
RTC_IN
RTC_INTR
X1002 NAX0564-001X
EEP_CS
EEP_IN
TL1001
Q1009 2SJ347-X
AVREFOFF
IC1001
VDD
VSS
VDDF
VDDH
PVDD
PVSS
AVSS
VREFL
AVREFH
AVDD

NOTE : The parts with marked (∗) is not used.


IC1001
MN103S33NJP
IC1005
M95320-WMN6W-X
IC1004
NJU7108F3-X
IC1003
74HC1G00GW-X
SN74AHC1G00K-X
MC74HC1G00DF-X
IC1002
MB90097PFV149_X
Q1010
DTC144EE-X
Q1003
UMC3N-W
Q1002
UMC3N-W
Q1001
DTA114EE-X
RN2102-X
PDTA114EE-X
X1001
NAX0630-001
20MHz
RA1008
100K
RA1007
TO VIDEO I/O
TO REG
TO DSC
TO CAM_DSP
TO AU_AD
TO AUDIO
TO CAM DSP
TO CN111
TO REAR
TO JACK
TO S_JACK
TO CN110
TO DV_MAIN
OSD_HD
OSD_VD
VC0
VC1
VC2
BLKA
VC3
BLKB
BLKC
DOT_CLK
GND
REG_3.1V
M_REG4.8
M_UNREG
DSC_RST
DSC_CS
DSC_DT_IN
DSC_DT_OUT
DSC_CLK
DSC_STS
DSC_WKUP
USBDOWN
FLSH_RST
CAPT_REQ
MXDT_OUT
MMC_CD
SYSVDSEL
PWAD2
A_MUTE
L_MUTE
PD_L
AUDIO_CS
AU_CLK
AU_DATA
S_IN_L
VENC_CS
CAM_CLK
CAM_OUT
VIFD_IN
EXT_IN_L
S2_DET
T_REEL
S_REEL
ADP_H
T_BATT
I_MTR
CHRG_EVR
REG_CS
AREG_CLK
AREG_SO
P_DET
S_DET
ASPECT1
ASPECT2
RECH
PBH
HID3
MONI_CHG
DV_RST
CLK27SEL
DV_WAIT
CDWE
CDALE
DRWSEL
CDDSTB
ADDT00
ADDT15
DV_CS
CAM_CS
XINT
DSP_RST
MVD
MFLD
OMT
DAC_CS
REC_SAFE
CAM_SW_C
CAM_SW_B
CAM_SW_A
TAPE_LED
REEL_VCC
S_SENS
E_SENS
DEW_SENS
MIC3
MIC2
MIC1
MIC_CTL
TLED_ON
REEL_ON

0 1 MAIN(CPU)

■ MAIN(AUDIO_AD) SCHEMATIC DIAGRAM (GR-D73)



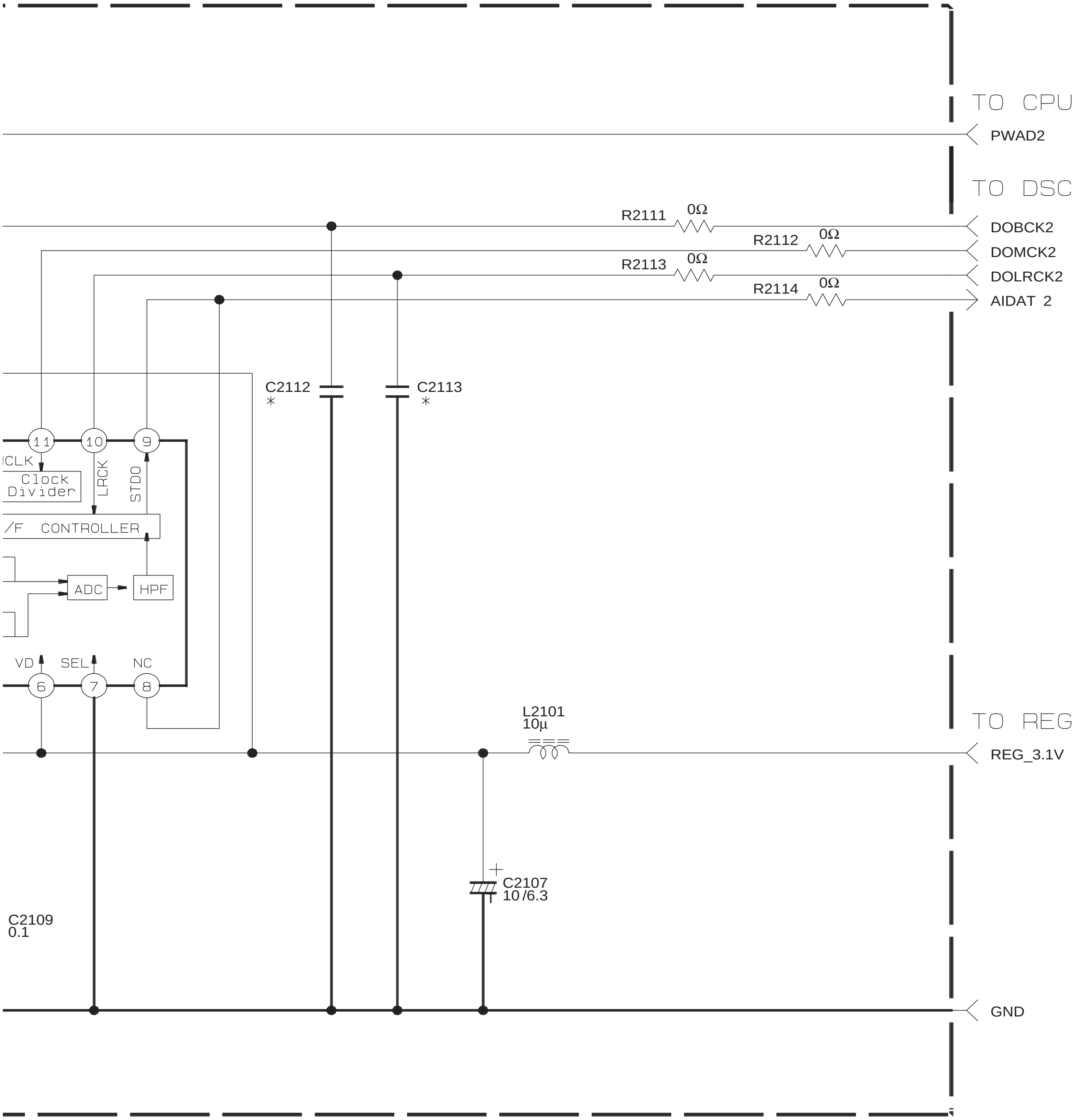
01 MAIN(AUDIO_AD)
IC2101
AK5355VT-X
R2105
0Ω
R2106
∗
16 TEST
15 NC
14 DIF
13 PDN
12 BCLK
MCLK
Audio I/F
VCOM 1
Rin 2
Lin 3
VSS 4
VA 5
VD
TO AUDIO
EM_AU/ L
EM_AU/ R
R2101
470
R2102
470
C2108
0.1
C2106
0.0022
C2110
4.7 /6.3
C2105
0.0022
0.1

NOTE : The parts with marked (∗) is not used.

NOTES:UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN μF.
CERAMIC
TANTAL
∗ NO WEAR

SYMBOL No. 2101~2199

LAST No.		VACANT No.	VACAN
R	2114	03-04 07-10 15-99	06
C	2113	01-04 11 14-99	12-13
IC	2101	02-99	
L	2101	02-99	
Q	——		
D	——		


TO CPU
PWAD2
TO DSC
R2111
0Ω
DOBCK2
R2112
0Ω
DOMCK2
R2113
0Ω
DOLRCK2
R2114
0Ω
AIDAT 2
C2112
*
C2113
*
11
10
9
CLK
Clock
Divider
LRCK
STDO
/F CONTROLLER
ADC
HPF
VD
SEL
NC
6
7
8
L2101
10µ
TO REG
REG_3.1V
C2107
10/6.3
C2109
0.1
GND

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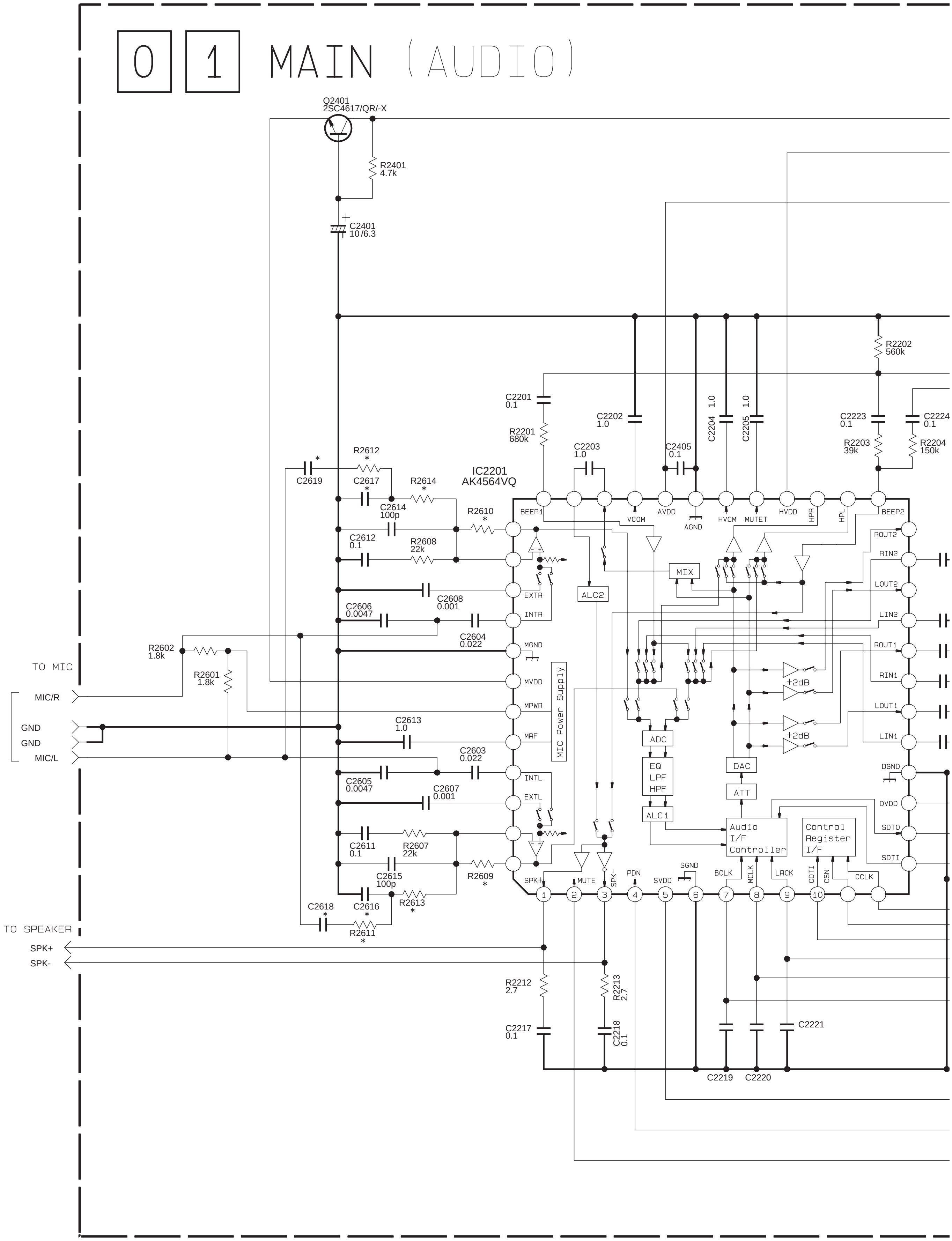
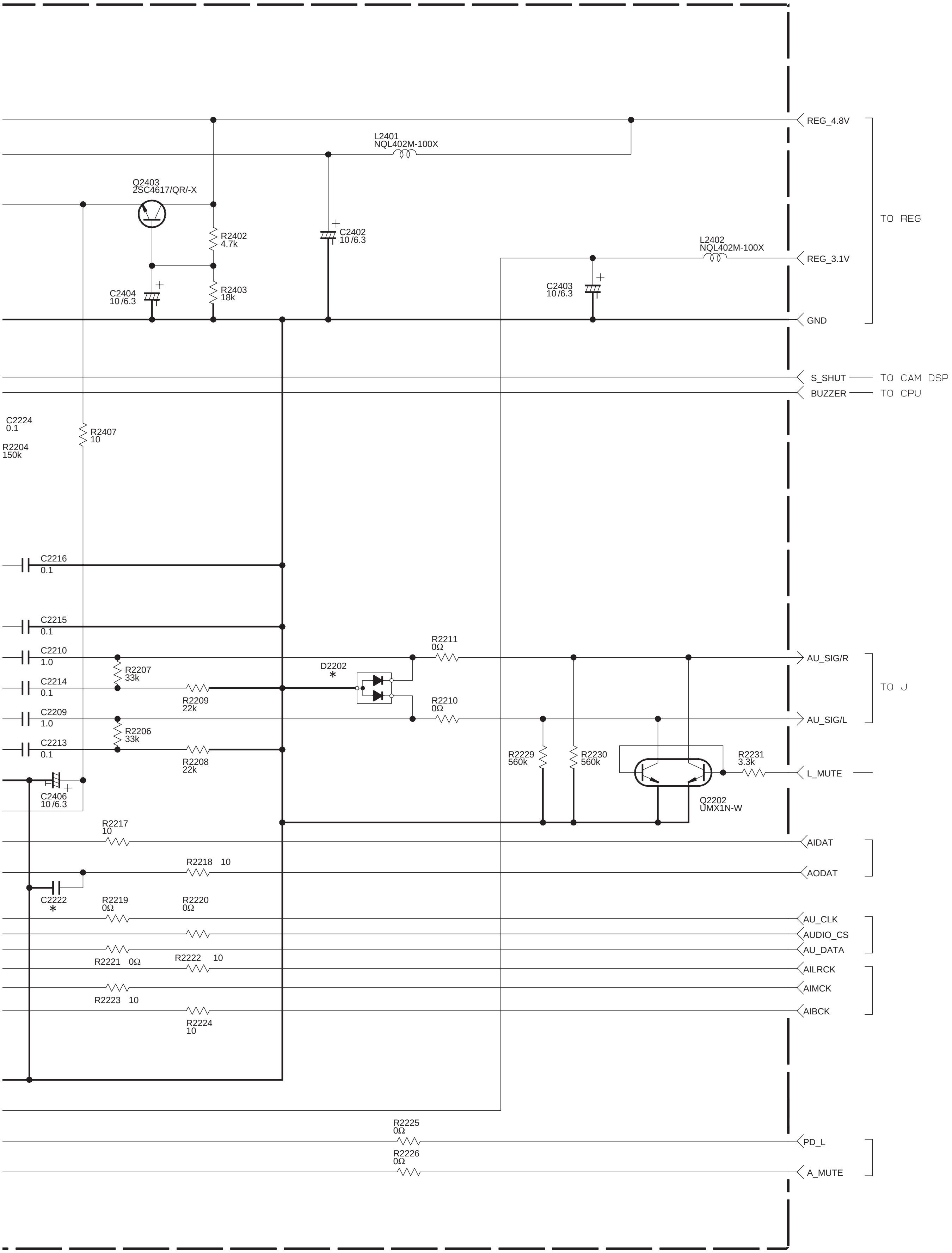
CANT No. (* NO WEAR)

■ MAIN(AUDIO) SCHEMATIC DIAGRAM(GR-D33)



0 1 MAIN (AUDIO)
Q2401
2SC4617/QR/-X
R2401
4.7k
C2401
10/6.3
R2202
560k
C2201
0.1
R2201
680k
C2202
1.0
C2204 1.0
C2205 1.0
C2223
0.1
C2224
0.1
R2203
39k
R2204
150k
C2203
1.0
C2405
0.1
R2612
C2619
C2617
R2614
IC2201
AK4564VQ
C2614
100p
R2610
C2612
0.1
R2608
22k
C2608
0.001
C2606
0.0047
C2604
0.022
R2602
1.8k
R2601
1.8k
TO MIC
MIC/R
GND
GND
MIC/L
C2613
1.0
C2603
0.022
C2605
0.0047
C2607
0.001
C2611
0.1
R2607
22k
C2615
100p
R2609
C2618
C2616
R2613
R2611
TO SPEAKER
SPK+
SPK-
R2212
2.7
R2213
2.7
C2217
0.1
C2218
0.1
C2221
C2219
C2220
BEEP1
VCOM
AVDD
AGND
HVCM
MUTET
HVDD
HPR
HPL
BEEP2
ROUT2
RIN2
LOUT2
LIN2
ROUT1
RIN1
LOUT1
LIN1
DGND
DVDD
SDTO
SDTI
EXTR
INTR
MGND
MVDD
MPWR
MRF
INTL
EXTL
MIC Power Supply
ALC2
MIX
ADC
EQ
LPF
HPF
ALC1
DAC
ATT
+2dB
+2dB
Audio I/F Controller
Control Register I/F
SPK+
MUTE
SPK-
PDN
SVDD
SGND
BCLK
MCLK
LRCK
CDTI
CSN
CCLK
1
2
3
4
5
6
7
8
9
10

NOTE : The parts with marked (∗) is not used.


REG_4.8V
L2401
NQL402M-100X
Q2403
2SC4617/QR/-X
R2402
4.7k
C2402
10/6.3
TO REG
L2402
NQL402M-100X
REG_3.1V
C2404
10/6.3
R2403
18k
C2403
10/6.3
GND
S_SHUT
TO CAM DSP
BUZZER
TO CPU
C2224
0.1
R2204
150k
R2407
10
C2216
0.1
C2215
0.1
C2210
1.0
R2211
0Ω
AU_SIG/R
D2202
*
R2207
33k
C2214
0.1
R2209
22k
TO J
C2209
1.0
R2210
0Ω
AU_SIG/L
R2206
33k
C2213
0.1
R2208
22k
R2229
560k
R2230
560k
R2231
3.3k
L_MUTE
C2406
10/6.3
Q2202
UMX1N-W
R2217
10
AIDAT
R2218 10
AODAT
C2222
*
R2219
0Ω
R2220
0Ω
AU_CLK
AUDIO_CS
AU_DATA
R2221 0Ω
R2222 10
AILRCK
AIMCK
R2223 10
AIBCK
R2224
10
R2225
0Ω
PD_L
R2226
0Ω
A_MUTE

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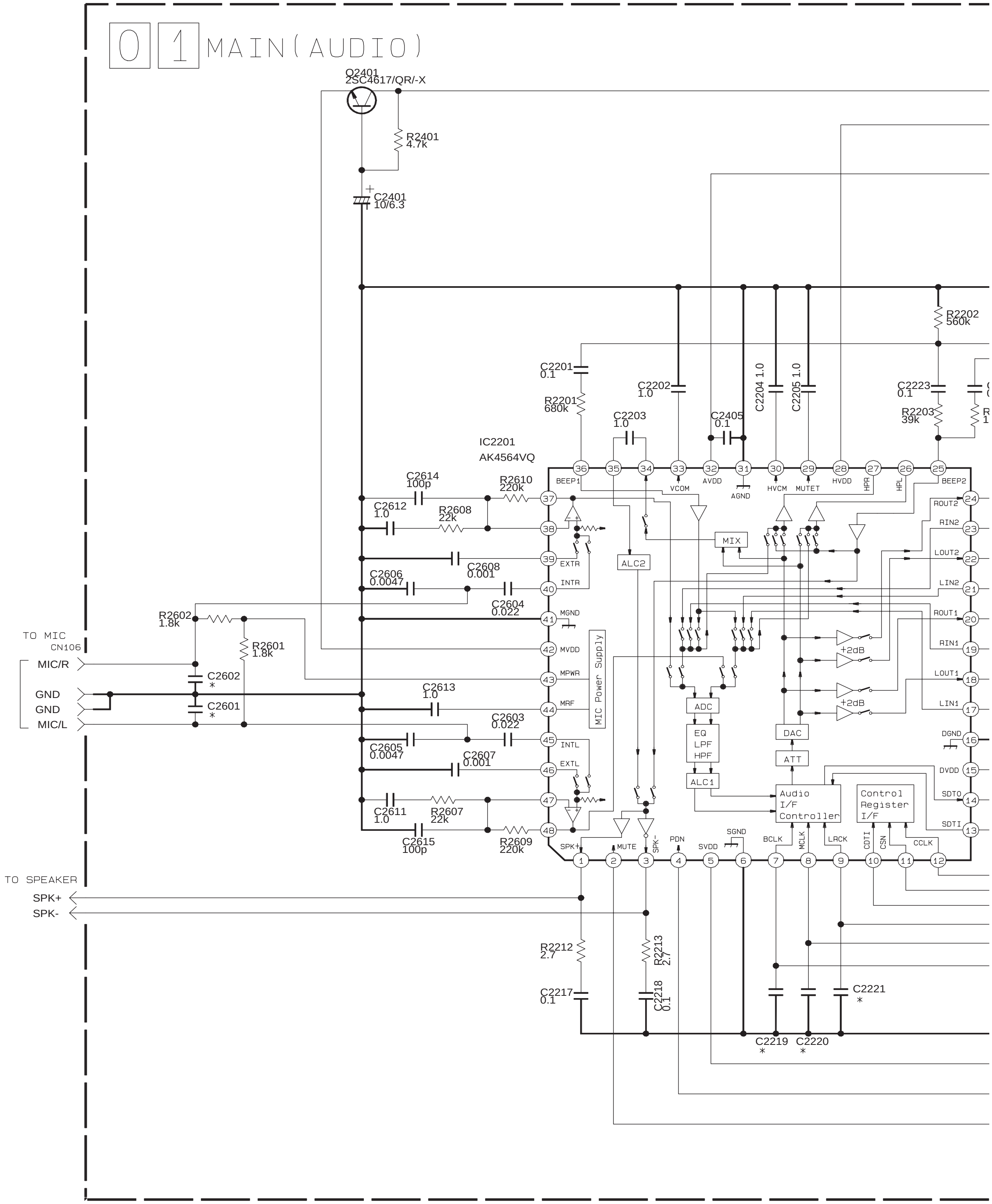
■ MAIN(AUDIO) SCHEMATIC DIAGRAM (GR-D73)



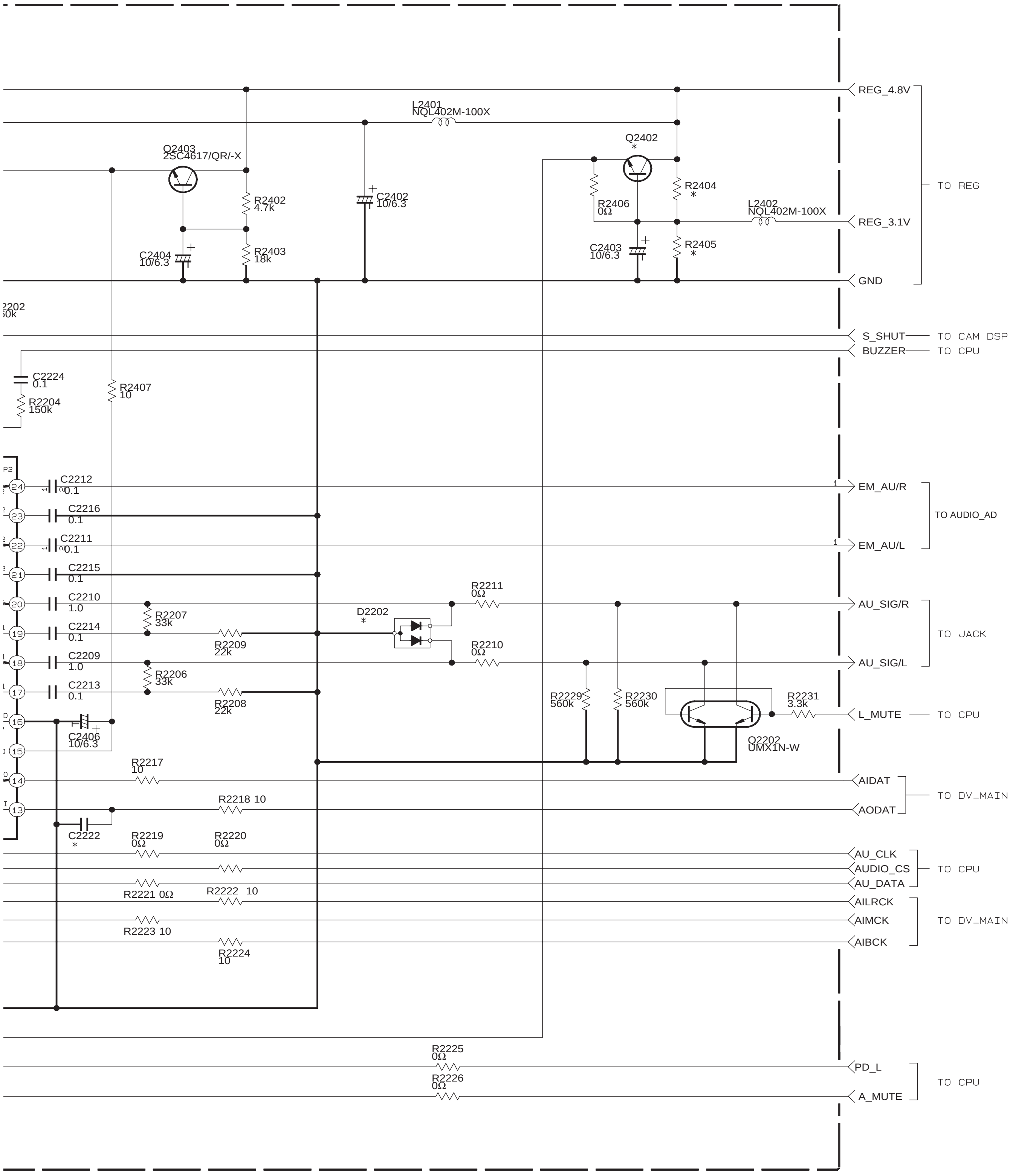
01 MAIN(AUDIO)
Q2401 2SC4617/QR/-X
R2401 4.7k
C2401 10/6.3
R2202 560k
C2201 0.1
R2201 680k
C2202 1.0
C2203 1.0
C2405 0.1
C2204 1.0
C2205 1.0
C2223 0.1
R2203 39k
IC2201 AK4564VQ
C2614 100p
R2610 220k
C2612 1.0
R2608 22k
C2608 0.001
C2606 0.0047
C2604 0.022
R2602 1.8k
R2601 1.8k
C2602 *
C2601 *
C2613 1.0
C2603 0.022
C2605 0.0047
C2607 0.001
C2611 1.0
R2607 22k
C2615 100p
R2609 220k
TO MIC
CN106
MIC/R
GND
GND
MIC/L
TO SPEAKER
SPK+
SPK-
R2212 2.7
R2213 2.7
C2217 0.1
C2218 0.1
C2219 *
C2220 *
C2221 *
BEEP1
VCOM
AVDD
AGND
HVCM
MUTET
HVDD
HPR
HPL
BEEP2
ROUT2
RIN2
LOUT2
LIN2
ROUT1
RIN1
LOUT1
LIN1
DGND
DVDD
SDTO
SDTI
EXTR
INTR
MGND
MVDD
MPWR
MRF
INTL
EXTL
SPK+
MUTE
SPK-
PDN
SVDD
SGND
BCLK
MCLK
LRCK
CDTI
CSN
CCLK
MIC Power Supply
ALC2
MIX
+2dB
+2dB
ADC
EQ
LPF
HPF
ALC1
DAC
ATT
Audio I/F Controller
Control Register I/F

NOTE : The parts with marked (∗) is not used.

NOTES:UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN μF.
⊣⊢ CERAMIC ±⊣⊢ TANTAL
∗ NO WEAR
∗1 VALUE CHANGE

SYMBOL No. 2201-2299 2401-2499 2601-

LAST No.		VACANT No.	VA
R	2610	205 214-216 227-228 232-299 406-600 603-606	404-405
C	2615	206-208 225-299 407-499 609-610 616-699	219-222
IC	2201	202-299 401-499 601-699	
L	2402	201-299 403-499 601-699	
Q	2403	201 203-299 404-499 601-699	402
D	2202	201 203-299 401-499 601-699	202

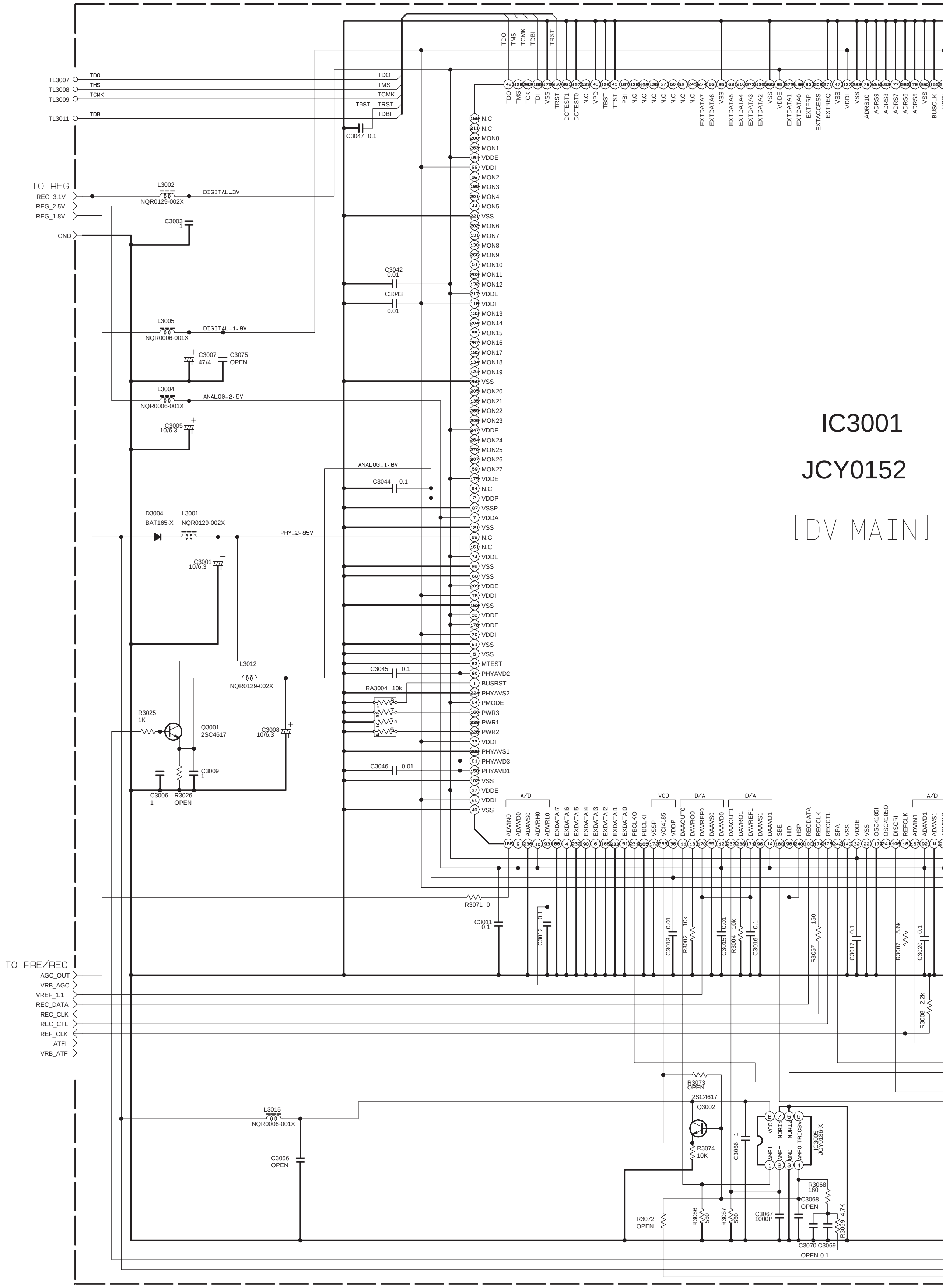

REG_4.8V
L2401
NQL402M-100X
Q2403
2SC4617/QR/-X
Q2402
*
R2402
4.7k
C2402
10/6.3
R2404
*
R2406
0Ω
L2402
NQL402M-100X
REG_3.1V
TO REG
C2404
10/6.3
R2403
18k
C2403
10/6.3
R2405
*
GND
2202
50k
S_SHUT
TO CAM DSP
BUZZER
TO CPU
C2224
0.1
R2407
10
R2204
150k
P2
C2212
0.1
EM_AU/R
C2216
0.1
TO AUDIO_AD
C2211
0.1
EM_AU/L
C2215
0.1
R2211
0Ω
C2210
1.0
D2202
*
AU_SIG/R
R2207
33k
C2214
0.1
R2209
22k
TO JACK
R2210
0Ω
C2209
1.0
AU_SIG/L
R2206
33k
C2213
0.1
R2208
22k
R2229
560k
R2230
560k
R2231
3.3k
L_MUTE
TO CPU
C2406
10/6.3
Q2202
UMX1N-W
R2217
10
AIDAT
R2218 10
AODAT
TO DV_MAIN
C2222
*
R2219
0Ω
R2220
0Ω
AU_CLK
AUDIO_CS
TO CPU
AU_DATA
R2221 0Ω
R2222 10
AILRCK
AIMCK
TO DV_MAIN
R2223 10
AIBCK
R2224
10
R2225
0Ω
PD_L
R2226
0Ω
TO CPU
A_MUTE
24
23
22
21
20
19
18
17
16
15
14
13
1
1

y20287001a_rev 0.1

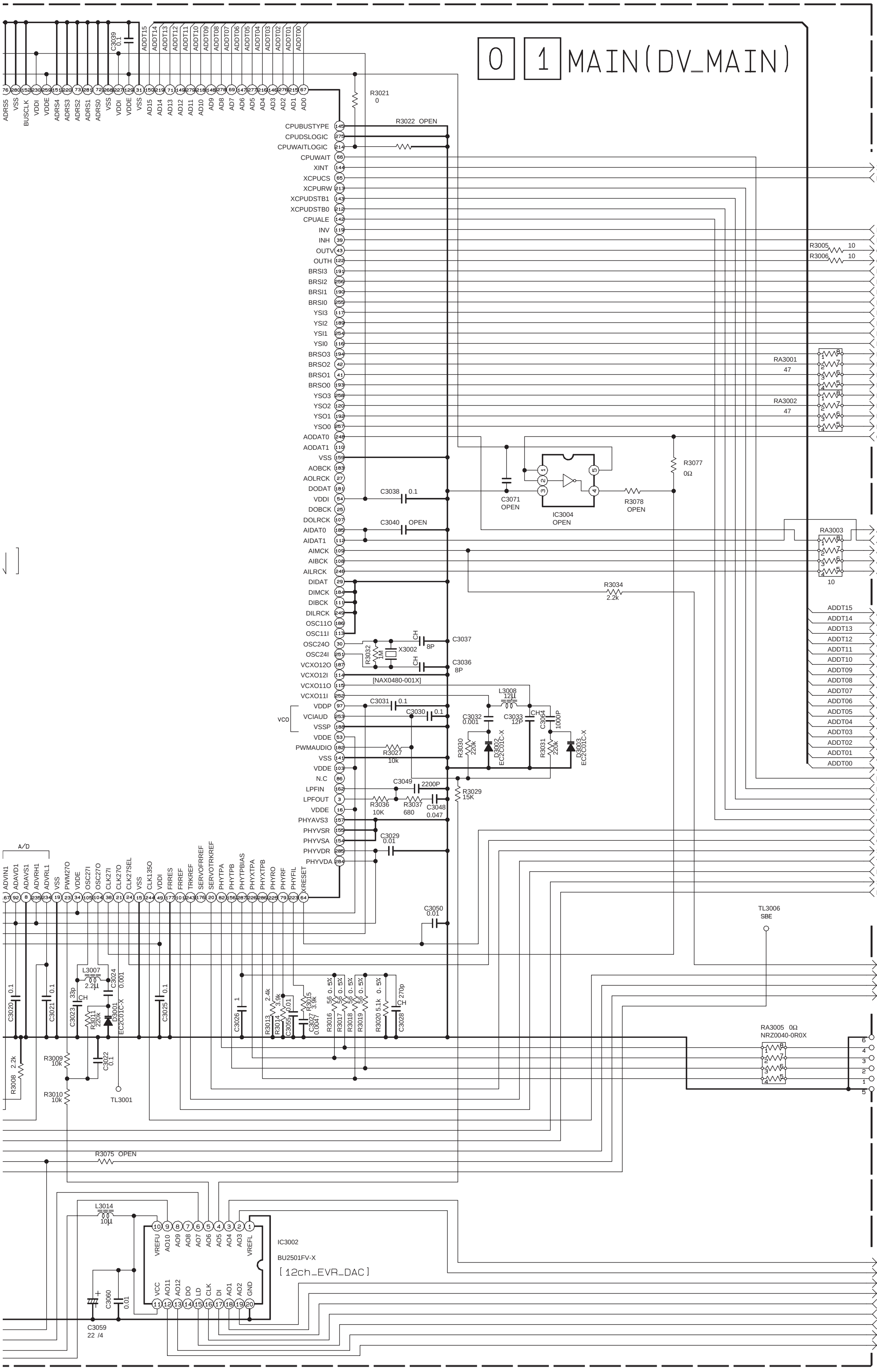
)1-2699

VACANT No.(＊NO WEAR)
4-405
3-222 601-602
2
2

■ MAIN(DV MAIN) SCHEMATIC DIAGRAM


IC3001
JCY0152
[DV MAIN]
TO REG
REG_3.1V
REG_2.5V
REG_1.8V
GND
TL3007
TL3008
TL3009
TL3011
TDO
TMS
TCMK
TDB
TRST
TDBI
C3047 0.1
L3002
NQR0129-002X
DIGITAL_3V
C3003
1
L3005
NQR0006-001X
DIGITAL_1.8V
C3007
47/4
C3075
OPEN
L3004
NQR0006-001X
ANALOG_2.5V
C3005
10/6.3
ANALOG_1.8V
C3044 0.1
D3004
BAT165-X
L3001
NQR0129-002X
PHY_2.85V
C3001
10/6.3
C3042
0.01
C3043
0.01
L3012
NQR0129-002X
C3045 0.1
RA3004 10k
R3025
1K
Q3001
2SC4617
C3008
10/6.3
C3046 0.01
C3009
1
C3006
1
R3026
OPEN
N.C
MON0
MON1
VDDE
VDDI
MON2
MON3
MON4
MON5
VSS
MON6
MON7
MON8
MON9
MON10
MON11
MON12
MON13
MON14
MON15
MON16
MON17
MON18
MON19
MON20
MON21
MON22
MON23
MON24
MON25
MON26
MON27
VDDP
VSSP
VDDA
MTEST
PHYAVD2
BUSRST
PHYAVS2
PMODE
PWR3
PWR1
PWR2
PHYAVS1
PHYAVD3
PHYAVD1
TCK
TDI
DCTEST1
DCTEST0
VPD
TBST
TTST
PBI
EXTDATA7
EXTDATA6
EXTDATA5
EXTDATA4
EXTDATA3
EXTDATA2
EXTDATA1
EXTDATA0
EXTFRP
EXTACCESS
EXTREQ
ADRS10
ADRS9
ADRS8
ADRS7
ADRS6
ADRS5
BUSCLK
A/D
VCO
D/A
ADVIN0
ADAVD0
ADAVS0
ADVRH0
ADVRL0
EXDATAI7
EXDATAI6
EXDATAI5
EXDATAI4
EXDATAI3
EXDATAI2
EXDATAI1
EXDATAI0
PBCLKO
PBCLKI
VSSP
VCI4185
VDDP
DAAOUT0
DAVRO0
DAVREF0
DAAVS0
DAAVD0
DAAOUT1
DAVRO1
DAVREF1
DAAVS1
DAAVD1
SBE
HID
HSP
RECDATA
RECCLK
RECCTL
SPA
OSC4185I
OSC4185O
DISCRI
REFCLK
ADVIN1
ADAVD1
ADAVS1
R3071 0
C3011
0.1
C3012 0.1
C3013 0.01
R3002 10k
C3015 0.01
R3004 10k
C3016 0.1
R3057 150
C3017 0.1
R3007 5.6k
C3020 0.1
R3008 2.2k
TO PRE/REC
AGC_OUT
VRB_AGC
VREF_1.1
REC_DATA
REC_CLK
REC_CTL
REF_CLK
ATFI
VRB_ATF
R3073
OPEN
2SC4617
Q3002
R3074
10K
C3066 1
VCC
NOR1
NOR2
TRICSW
AMP+
AMP−
GND
AMPO
IC3005
JCY0136-X
R3068
180
C3068
OPEN
L3015
NQR0006-001X
C3056
OPEN
R3072
OPEN
R3056
560
R3067
560
C3067
1000P
R3069 4.7K
C3070 C3069
OPEN 0.1

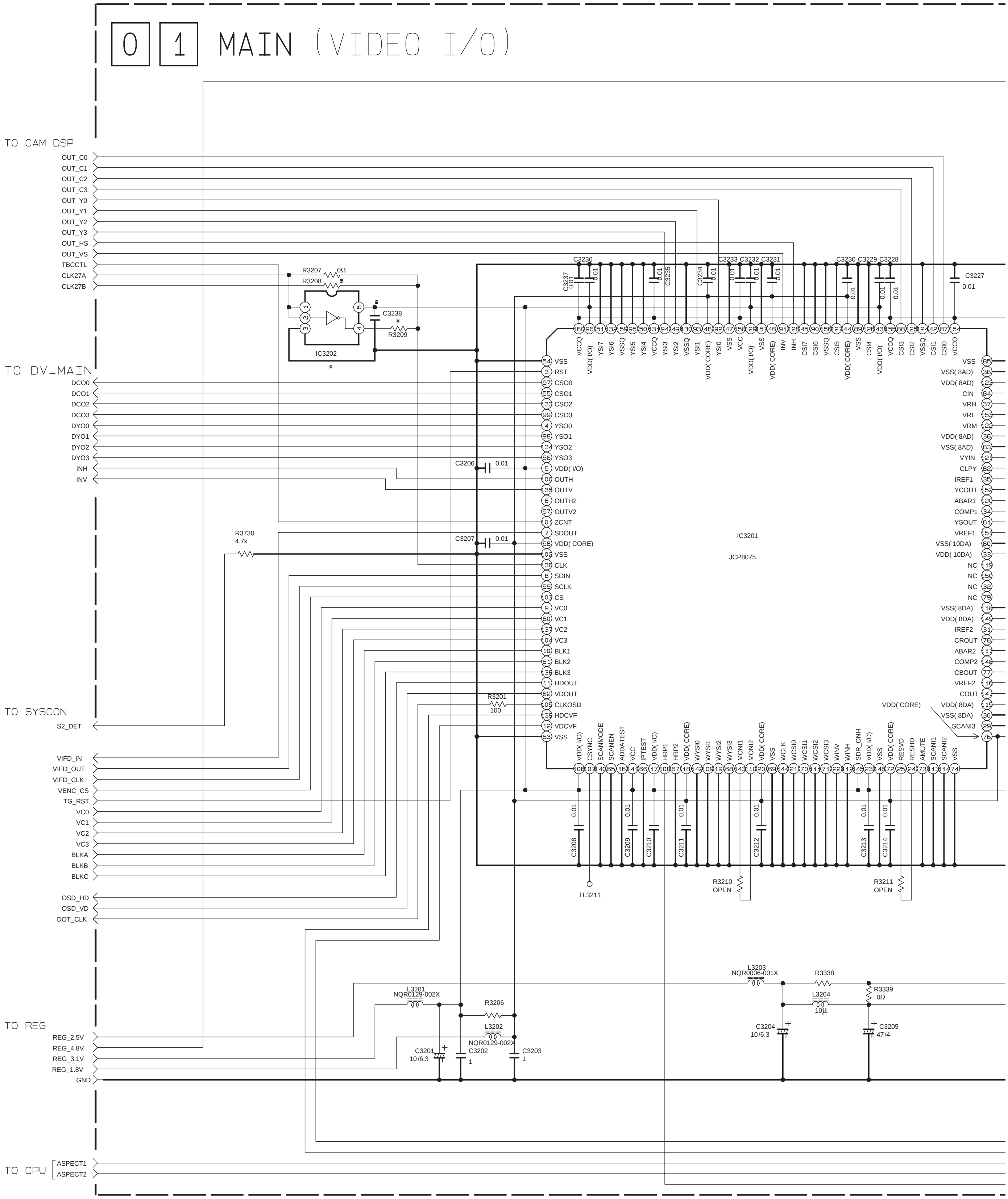
NOTE : The parts with marked (∗) is not used.



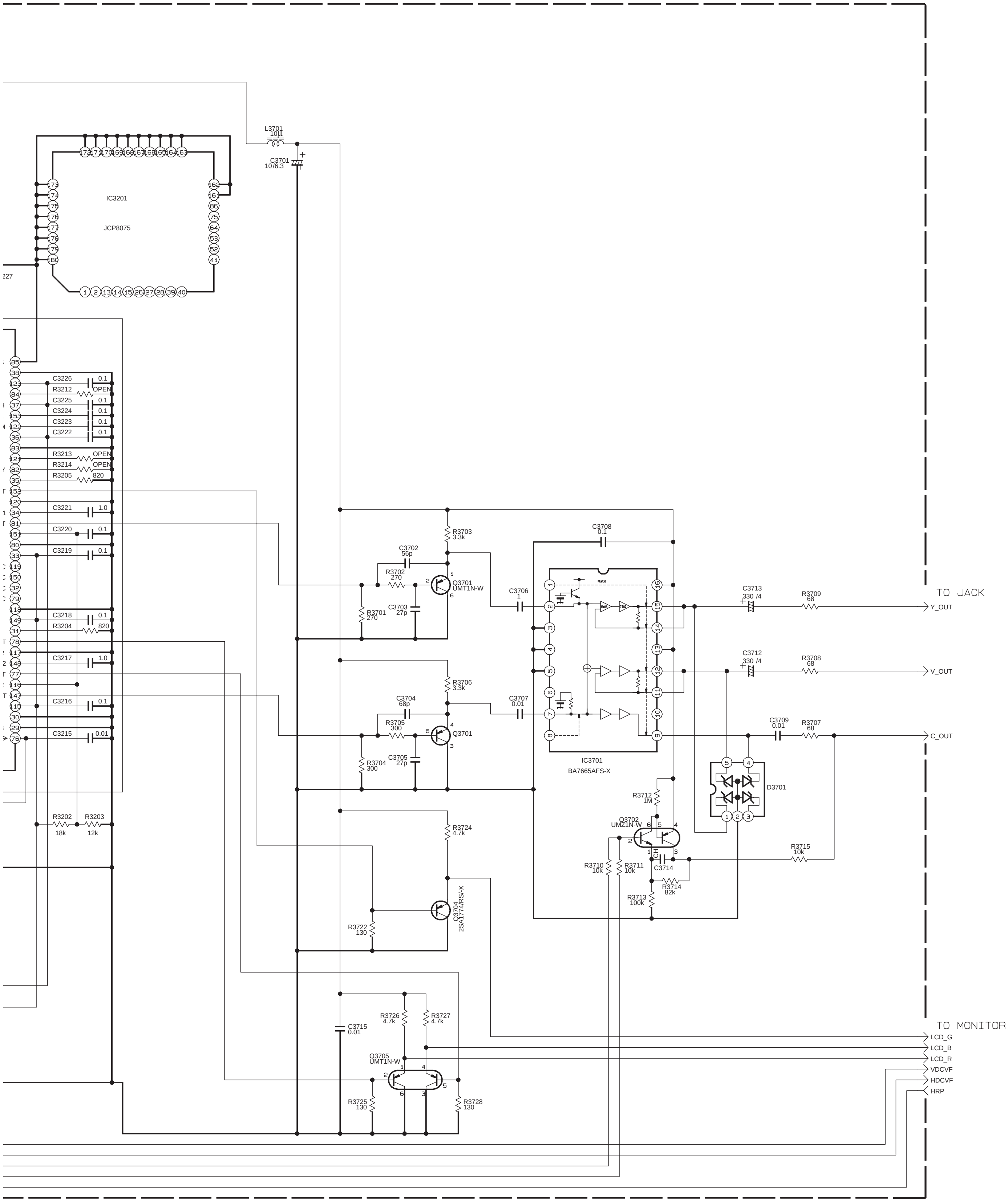
0 1 MAIN(DV_MAIN)
TO CPU
XINT
DV_CS
TO CAM DSP
INV
INH
OUTV
OUTH
DCO3
DCO2
DCO1
DCO0
DYO3
DYO2
DYO1
DYO0
DCI3
DCI2
DCI1
DCI0
DYI3
DYI2
DYI1
DYI0
CLK27A
TO AUDIO AD/DA
AODAT
AIDAT
AIMCK
AIBCK
AILRCK
TO SERVO
ADDT15
ADDT14
ADDT13
ADDT12
ADDT11
ADDT10
ADDT09
ADDT08
ADDT07
ADDT06
ADDT05
ADDT04
ADDT03
ADDT02
ADDT01
ADDT00
DV_WAIT
DRWSEL
CDDSTB
CDWE
CDALE
DV_RST
CLK27SEL
SRV_TRK
TSR
FRP
SPA
HID1
TO JIG CONNECTOR
FS_PLL
MAIN_VCO
PB_CLK
DISCRI
TO DV I/O
J501
TPA+
TPA−
TPB+
TPB−
RA3005 0Ω
NRZ0040-0R0X
TO PRE/REC
DUMP_CTL
NOSIG_LV
ATF_GAIN
RECCADJ
TO CPU
VIFD_OUT
VIFD_CLK
DAC_CS
TO OP DRIVER
H_OFFSET
H_GAIN
IC3002
BU2501FV-X
[12ch_EVR_DAC]
IC3004
OPEN
R3021 0
R3022 OPEN
C3038 0.1
C3040 OPEN
C3071 OPEN
R3077 0Ω
R3078 OPEN
R3005 10
R3006 10
RA3001 47
RA3002 47
RA3003 10
R3034 2.2k
X3002
[NAX0480-001X]
C3037 8P
C3036 8P
R3032 1M
L3008 12μ
C3031 0.1
C3030 0.1
C3032 0.001
C3033 12P
C3064 1000P
D3002 EC2C01C-X
D3003 EC2C01C-X
R3030 220k
R3031 22k
R3027 10k
C3049 2200P
R3029 15K
R3036 10K
R3037 680
C3048 0.047
C3029 0.01
C3050 0.01
TL3006 SBE
VCO
A/D
C3039 0.1
C3020 0.1
C3021 0.1
C3023 33p
L3007 2.2μ
C3024 0.001
R3011 220k
D3001 EC2C01C-X
C3025 0.1
C3026 1
R3013 2.4k
R3014 3.9k
C3055 0.01
C3027 0.0047
R3015 3.9k
R3016 56 0.5%
R3017 56 0.5%
R3018 56 0.5%
R3019 56 0.5%
R3020 5.1k 0.5%
C3028 270p
R3008 2.2k
R3009 10k
R3010 10k
C3022 0.1
TL3001
R3075 OPEN
L3014 10μ
C3060 0.01
C3059 22 /4

y10399001a_rev.0.1

■ MAIN(VIDEO I/O) SCHEMATIC DIAGRAM (GR-D33)

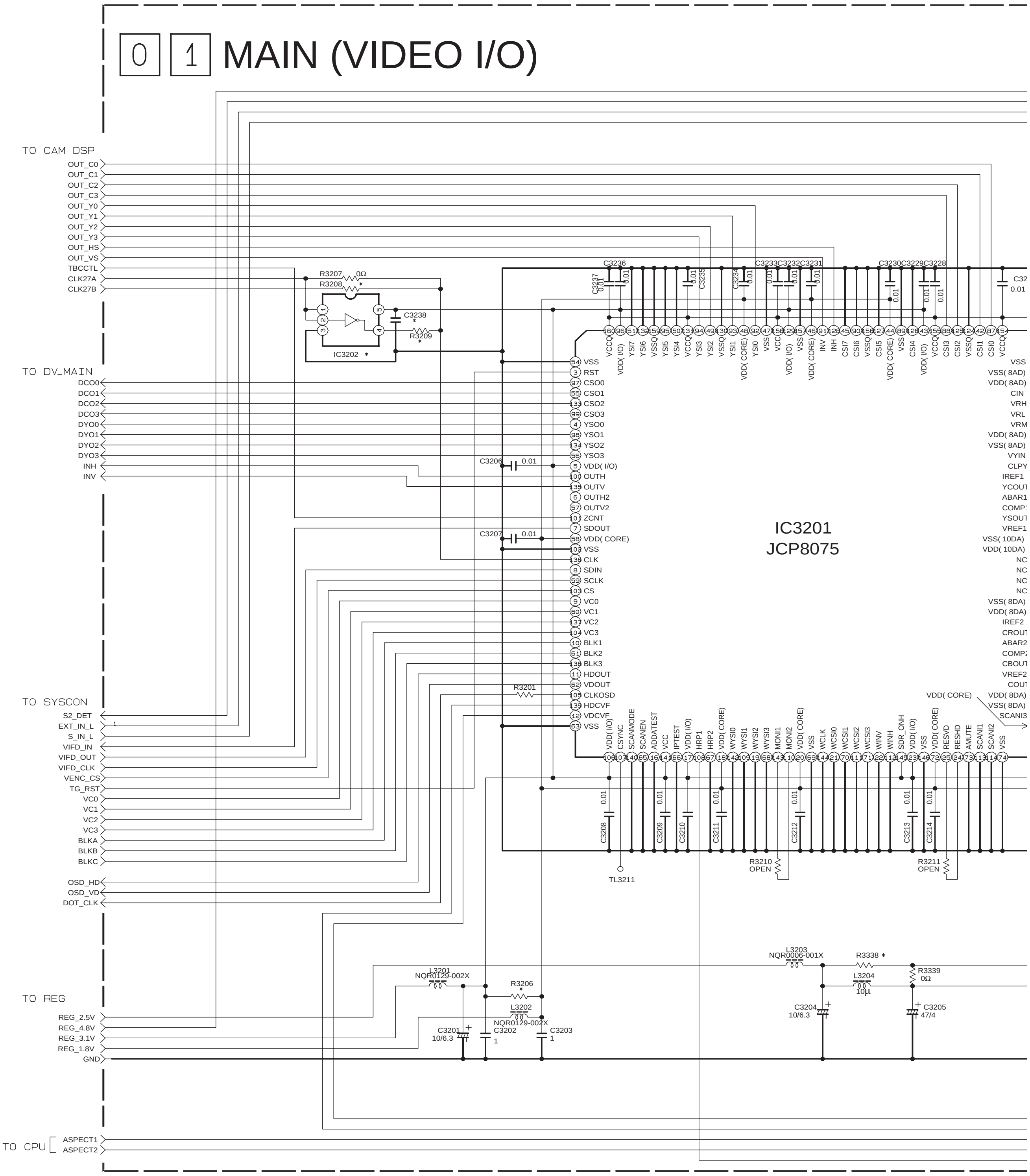

0 1 MAIN (VIDEO I/O)
TO CAM DSP
OUT_C0
OUT_C1
OUT_C2
OUT_C3
OUT_Y0
OUT_Y1
OUT_Y2
OUT_Y3
OUT_HS
OUT_VS
TBCCTL
CLK27A
CLK27B
R3207 0Ω
R3208 ∗
C3238 ∗
R3209 ∗
IC3202 ∗
TO DV_MAIN
DCO0
DCO1
DCO2
DCO3
DYO0
DYO1
DYO2
DYO3
INH
INV
C3206 0.01
C3207 0.01
R3730 4.7k
TO SYSCON
S2_DET
VIFD_IN
VIFD_OUT
VIFD_CLK
VENC_CS
TG_RST
VC0
VC1
VC2
VC3
BLKA
BLKB
BLKC
OSD_HD
OSD_VD
DOT_CLK
R3201 100
IC3201
JCP8075
C3236
C3237 0.01
C3235
C3234
C3233
C3232
C3231
C3230
C3229
C3228
C3227 0.01
VSS
RST
CSO0
CSO1
CSO2
CSO3
YSO0
YSO1
YSO2
YSO3
VDD(I/O)
OUTH
OUTV
OUTH2
OUTV2
ZCNT
SDOUT
VDD(CORE)
CLK
SDIN
SCLK
CS
BLK1
BLK2
BLK3
HDOUT
VDOUT
CLKOSD
HDCVF
VDCVF
VSS(8AD)
VDD(8AD)
CIN
VRH
VRL
VRM
VYIN
CLPY
IREF1
YCOUT
ABAR1
COMP1
YSOUT
VREF1
VSS(10DA)
VDD(10DA)
NC
VSS(8DA)
VDD(8DA)
IREF2
CROUT
ABAR2
COMP2
CBOUT
VREF2
COUT
SCANI3
VCCQ
YSI7
YSI6
VSSQ
YSI5
YSI4
YSI3
YSI2
YSI1
YSI0
VCC
INV
INH
CSI7
CSI6
CSI5
CSI4
CSI3
CSI2
CSI1
CSI0
CSYNC
SCANMODE
SCANEN
ADDATEST
IPTEST
HRP1
HRP2
WYSI0
WYSI1
WYSI2
WYSI3
MONI1
MONI2
WCLK
WCSI0
WCSI1
WCSI2
WCSI3
WINV
WINH
SDR_ONH
RESVD
RESHD
AMUTE
SCANI1
SCANI2
C3208 0.01
C3209 0.01
C3210
C3211 0.01
C3212 0.01
C3213 0.01
C3214 0.01
TL3211
R3210 OPEN
R3211 OPEN
L3203 NQR0006-001X
R3338
R3339 0Ω
L3204 10μ
C3204 10/6.3
C3205 47/4
TO REG
REG_2.5V
REG_4.8V
REG_3.1V
REG_1.8V
GND
L3201 NQR0129-002X
R3206
L3202 NQR0129-002X
C3201 10/6.3
C3202 1
C3203 1
TO CPU
ASPECT1
ASPECT2

NOTE : The parts with marked (∗) is not used.


L3701
10μ
C3701
10/6.3
IC3201
JCP8075
C3226 0.1
R3212 OPEN
C3225 0.1
C3224 0.1
C3223 0.1
C3222 0.1
R3213 OPEN
R3214 OPEN
R3205 820
C3221 1.0
C3220 0.1
C3219 0.1
C3218 0.1
R3204 820
C3217 1.0
C3216 0.1
C3215 0.01
R3202 18k
R3203 12k
R3703 3.3k
C3702 56p
R3702 270
Q3701 UMT1N-W
R3701 270
C3703 27p
C3706 1
C3708 0.1
R3706 3.3k
C3704 68p
R3705 300
Q3701
R3704 300
C3705 27p
C3707 0.01
IC3701
BA7665AFS-X
Mute
C3713 330 /4
R3709 68
C3712 330 /4
R3708 68
C3709 0.01
R3707 68
D3701
R3712 1M
Q3702 UMZ1N-W
R3710 10k
R3711 10k
C3714
R3714 82k
R3713 100k
R3715 10k
R3724 4.7k
Q3704 2SA1774/RS/-X
R3722 130
C3715 0.01
R3726 4.7k
R3727 4.7k
Q3705 UMT1N-W
R3725 130
R3728 130
TO JACK
Y_OUT
V_OUT
C_OUT
TO MONITOR
LCD_G
LCD_B
LCD_R
VDCVF
HDCVF
HRP

y10408001a_rev0.1

■ MAIN(VIDEO I/O) SCHEMATIC DIAGRAM (GR-D73)

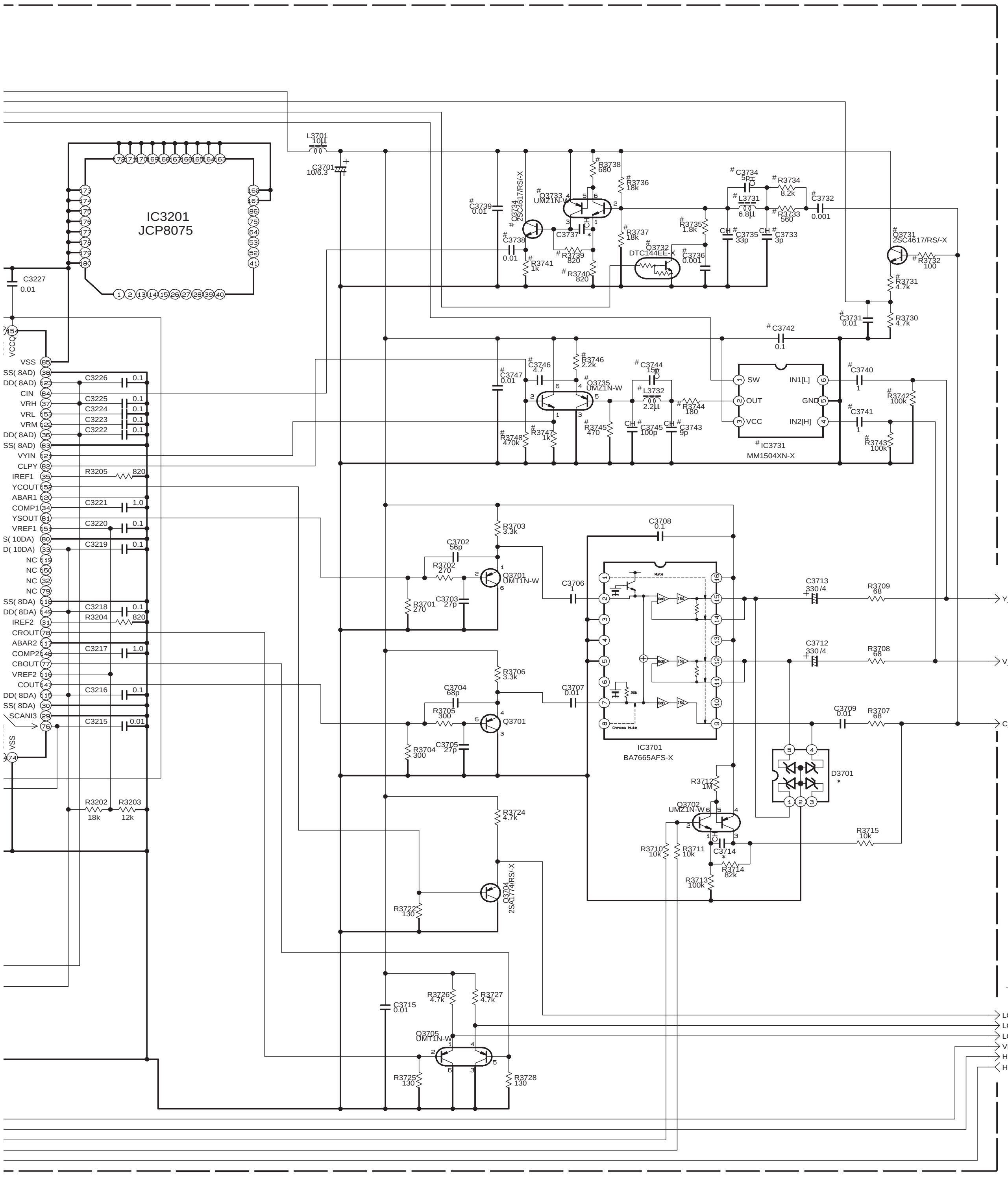


0 1 MAIN (VIDEO I/O)
TO CAM DSP
OUT_C0
OUT_C1
OUT_C2
OUT_C3
OUT_Y0
OUT_Y1
OUT_Y2
OUT_Y3
OUT_HS
OUT_VS
TBCCTL
CLK27A
CLK27B
R3207 0Ω
R3208 *
C3238 *
R3209 *
IC3202 *
TO DV_MAIN
DCO0
DCO1
DCO2
DCO3
DYO0
DYO1
DYO2
DYO3
INH
INV
C3206 0.01
C3207 0.01
R3201
TO SYSCON
S2_DET
EXT_IN_L
S_IN_L
VIFD_IN
VIFD_OUT
VIFD_CLK
VENC_CS
TG_RST
VC0
VC1
VC2
VC3
BLKA
BLKB
BLKC
OSD_HD
OSD_VD
DOT_CLK
TO REG
REG_2.5V
REG_4.8V
REG_3.1V
REG_1.8V
GND
TO CPU
ASPECT1
ASPECT2
IC3201
JCP8075
C3236
C3237 0.01
C3235 0.01
C3234 0.01
C3233 C3232 C3231
C3230 C3229 C3228
0.01
VSS
RST
CSO0
CSO1
CSO2
CSO3
YSO0
YSO1
YSO2
YSO3
VDD(I/O)
OUTH
OUTV
OUTH2
OUTV2
ZCNT
SDOUT
VDD(CORE)
VSS
CLK
SDIN
SCLK
CS
VC0
VC1
VC2
VC3
BLK1
BLK2
BLK3
HDOUT
VDOUT
CLKOSD
HDCVF
VDCVF
VSS
VCCQ
VDD(I/O)
YSI7
YSI6
VSSQ
YSI5
YSI4
VCCQ
YSI3
YSI2
VSSQ
YSI1
VDD(CORE)
YSI0
VSS
VCC
VDD(I/O)
VDD(CORE)
VSS
INV
INH
CSI7
CSI6
VSSQ
CSI5
VDD(CORE)
VSS
CSI4
VDD(I/O)
VCCQ
CSI3
CSI2
VSSQ
CSI1
CSI0
VCCQ
VSS(8AD)
VDD(8AD)
CIN
VRH
VRL
VRM
VDD(8AD)
VSS(8AD)
VYIN
CLPY
IREF1
YCOUT
ABAR1
COMP1
YSOUT
VREF1
VSS(10DA)
VDD(10DA)
NC
NC
NC
NC
VSS(8DA)
VDD(8DA)
IREF2
CROUT
ABAR2
COMP2
CBOUT
VREF2
COUT
VDD(CORE)
VDD(8DA)
VSS(8DA)
SCANI3
VDD(I/O)
CSYNC
SCANMODE
SCANEN
ADDATEST
VCC
IPTEST
VDD(I/O)
HRP1
HRP2
VDD(CORE)
WYSI0
WYSI1
WYSI2
WYSI3
MONI1
MONI2
VDD(CORE)
VSS
WCLK
WCSI0
WCSI1
WCSI2
WCSI3
WINV
WINH
SDR_ONH
VDD(I/O)
VSS
VDD(CORE)
RESVD
RESHD
AMUTE
SCANI1
SCANI2
VSS
C3208 0.01
C3209 0.01
C3210
C3211 0.01
C3212 0.01
C3213 0.01
C3214 0.01
R3210 OPEN
R3211 OPEN
TL3211
L3201 NQR0129-002X
R3206 *
L3202 NQR0129-002X
C3201 10/6.3
C3202 1
C3203 1
L3203 NQR0006-001X
R3338 *
R3339 0Ω
L3204 10μ
C3204 10/6.3
C3205 47/4

NOTE : The parts with marked (∗) is not used.

#: EXCHANGE PARTS LIST

	WITH ANALOG INPUT	WITHOUT ANALOG INPUT
IC3731	WARE	NO WARE
Q3731–Q3735	WARE	NO WARE
L3731, L3732	WARE	NO WARE
R3731–R3748	WARE	NO WARE
C3731–C3747	WARE	NO WARE



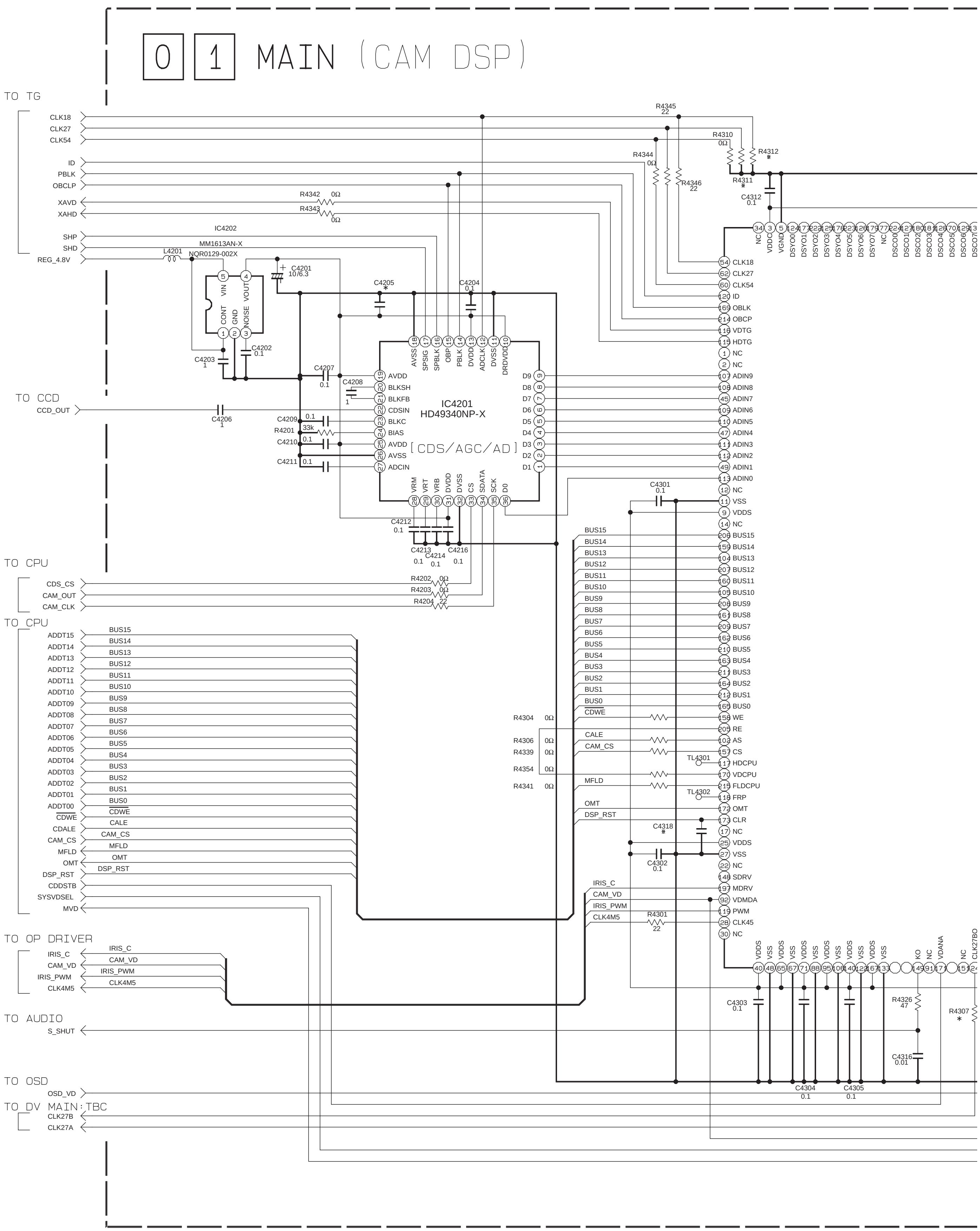
IC3201
JCP8075
C3227 0.01
VCCO
VSS
SS(8AD)
DD(8AD)
CIN
VRH
VRL
VRM
DD(8AD)
SS(8AD)
VYIN
CLPY
IREF1
YCOUT
ABAR1
COMP1
YSOUT
VREF1
S(10DA)
D(10DA)
NC
NC
NC
NC
SS(8DA)
DD(8DA)
IREF2
CROUT
ABAR2
COMP2
CBOUT
VREF2
COUT
DD(8DA)
SS(8DA)
SCANI3
VSS
C3226 0.1
C3225 0.1
C3224 0.1
C3223 0.1
C3222 0.1
R3205 820
C3221 1.0
C3220 0.1
C3219 0.1
C3218 0.1
R3204 820
C3217 1.0
C3216 0.1
C3215 0.01
R3202 18k
R3203 12k
L3701 10μ
C3701 10/6.3
C3739 0.01
Q3734 2SC4617/RS/-X
C3738 0.01
R3741 1k
Q3733 UMZ1N-W
C3737
R3739 820
R3740 820
R3738 680
R3736 18k
R3737 18k
Q3732 DTC144EE-X
R3735 1.8k
C3736 0.001
C3734 5p
L3731 6.8μ
C3735 33p
C3733 3p
R3734 8.2k
R3733 560
C3732 0.001
Q3731 2SC4617/RS/-X
R3732 100
R3731 4.7k
R3730 4.7k
C3731 0.01
C3742 0.1
C3747 0.01
C3746 4.7
R3746 2.2k
Q3735 UMZ1N-W
R3748 470k
R3747 1k
R3745 470
C3744 15p
L3732 2.2μ
C3745 100p
C3743 9p
R3744 180
SW
OUT
VCC
IN1[L]
GND
IN2[H]
IC3731
MM1504XN-X
C3740 1
C3741 1
R3742 100k
R3743 100k
R3703 3.3k
C3702 56p
R3702 270
Q3701 UMT1N-W
R3701 270
C3703 27p
C3706 1
C3708 0.1
R3706 3.3k
C3704 68p
R3705 300
Q3701
R3704 300
C3705 27p
C3707 0.01
IC3701
BA7665AFS-X
Mute
Chroma Mute
C3713 330/4
R3709 68
C3712 330/4
R3708 68
C3709 0.01
R3707 68
D3701
R3712 1M
Q3702 UMZ1N-W
R3710 10k
R3711 10k
C3714
R3714 82k
R3713 100k
R3715 10k
R3724 4.7k
Q3704 2SA1774/RS/-X
R3722 130
C3715 0.01
R3726 4.7k
R3727 4.7k
Q3705 UMT1N-W
R3725 130
R3728 130
TO JACK
Y_OUT
V_OUT
C_OUT
TO MONITOR
LCD_G
LCD_B
LCD_R
VDCVF
HDCVF
HRP

y10404001a_rev0.1

NOTES:UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN μF.
ELECTROLYTIC
CERAMIC
MY MYLER
N NON POLAR

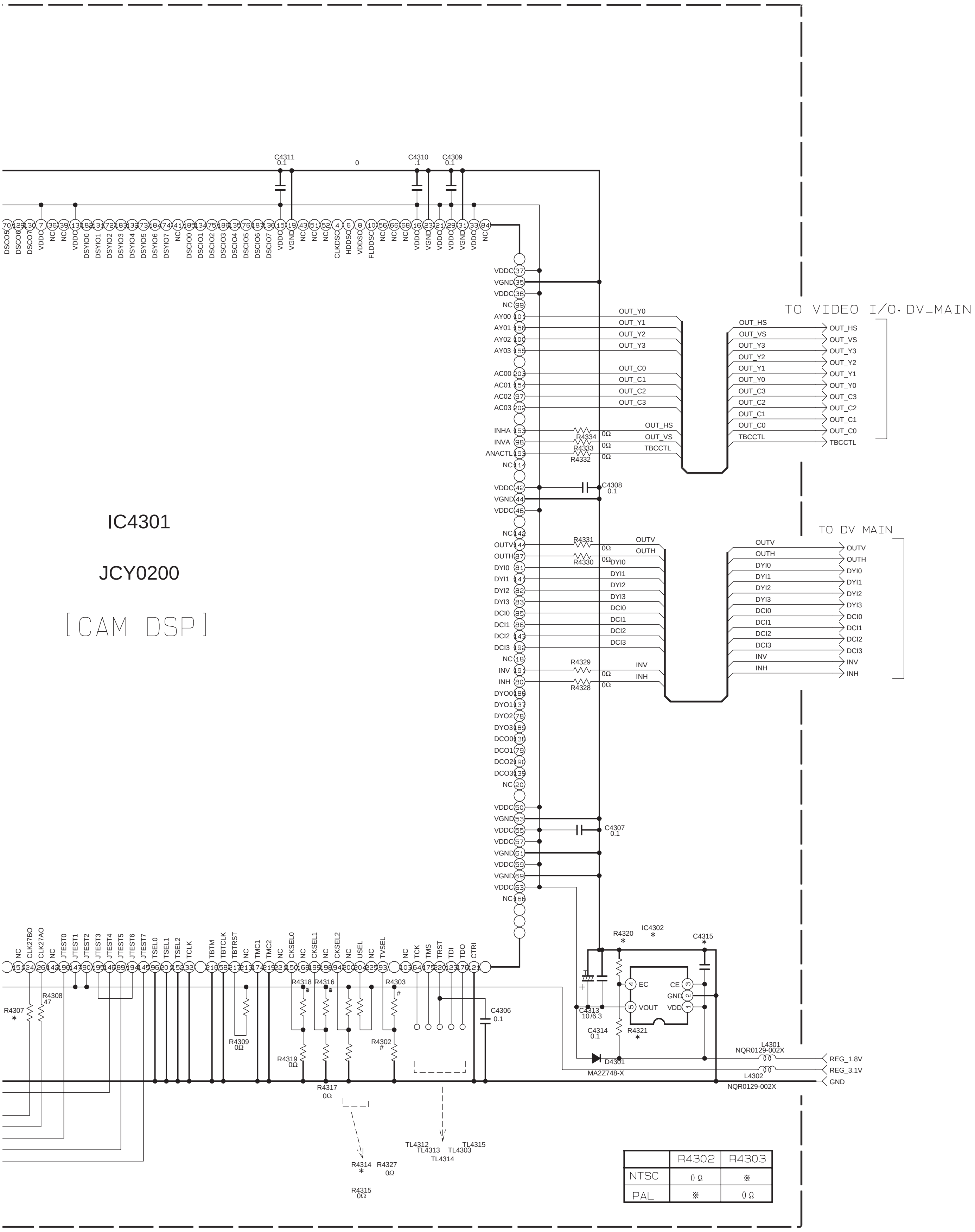
LAST NO		VACANT NO
R		
C		
D		
Q		
L		

■ MAIN(CAM DSP) SCHEMATIC DIAGRAM (GR-D33)



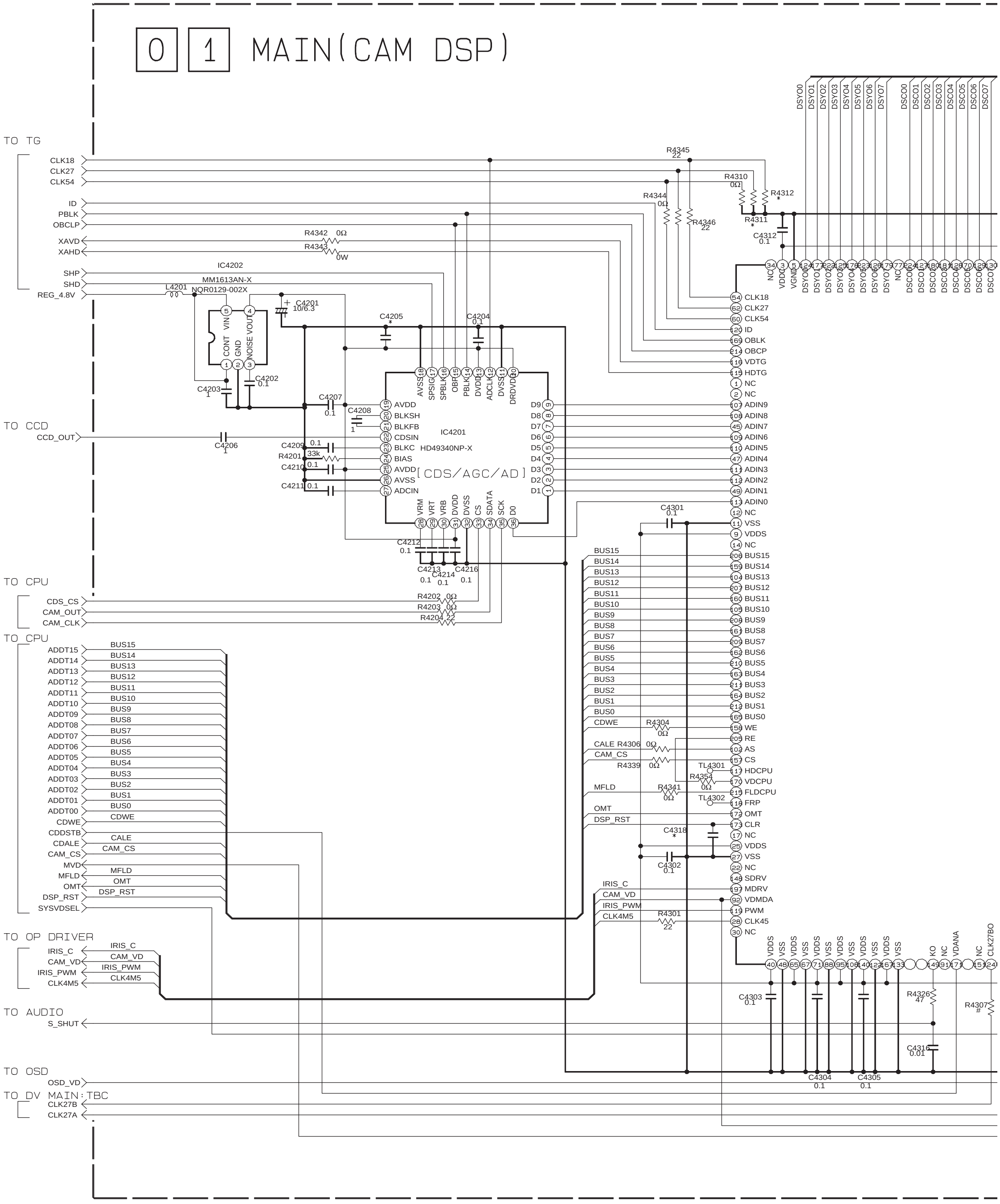
01 MAIN (CAM DSP)
TO TG
CLK18
CLK27
CLK54
ID
PBLK
OBCLP
XAVD
XAHD
SHP
SHD
REG_4.8V
R4345 22
R4310 0Ω
R4312 *
R4311 *
R4344 0Ω
R4346 22
C4312 0.1
R4342 0Ω
R4343 0Ω
IC4202
MM1613AN-X
NQR0129-002X
L4201
C4201 10/6.3
C4205 *
C4204 0.1
VIN
VOUT
CONT
GND
NOISE
C4202 0.1
C4203 1
C4207 0.1
C4208 1
TO CCD
CCD_OUT
C4206 1
C4209 0.1
R4201 33k
C4210 0.1
C4211 0.1
IC4201
HD49340NP-X
[CDS/AGC/AD]
AVSS
SPSIG
SPBLK
OBP
PBLK
DVDD
ADCLK
DVSS
DRDVDD
AVDD
BLKSH
BLKFB
CDSIN
BLKC
BIAS
AVDD
AVSS
ADCIN
D9
D8
D7
D6
D5
D4
D3
D2
D1
VRM
VRT
VRB
DVDD
DVSS
CS
SDATA
SCK
D0
C4212 0.1
C4213 0.1
C4214 0.1
C4216 0.1
TO CPU
CDS_CS
CAM_OUT
CAM_CLK
R4202 0Ω
R4203 0Ω
R4204 22
TO CPU
ADDT15
ADDT14
ADDT13
ADDT12
ADDT11
ADDT10
ADDT09
ADDT08
ADDT07
ADDT06
ADDT05
ADDT04
ADDT03
ADDT02
ADDT01
ADDT00
CDWE
CDALE
CAM_CS
MFLD
OMT
DSP_RST
CDDSTB
SYSVDSEL
MVD
BUS15
BUS14
BUS13
BUS12
BUS11
BUS10
BUS9
BUS8
BUS7
BUS6
BUS5
BUS4
BUS3
BUS2
BUS1
BUS0
CDWE
CALE
CAM_CS
MFLD
OMT
DSP_RST
R4304 0Ω
R4306 0Ω
R4339 0Ω
R4354 0Ω
R4341 0Ω
TL4301
TL4302
C4318 *
C4302 0.1
C4301 0.1
IRIS_C
CAM_VD
IRIS_PWM
CLK4M5
R4301 22
CLK18
CLK27
CLK54
ID
OBLK
OBCP
VDTG
HDTG
NC
NC
ADIN9
ADIN8
ADIN7
ADIN6
ADIN5
ADIN4
ADIN3
ADIN2
ADIN1
ADIN0
NC
VSS
VDDS
NC
BUS15
BUS14
BUS13
BUS12
BUS11
BUS10
BUS9
BUS8
BUS7
BUS6
BUS5
BUS4
BUS3
BUS2
BUS1
BUS0
WE
RE
AS
CS
HDCPU
VDCPU
FLDCPU
FRP
OMT
CLR
NC
VDDS
VSS
NC
SDRV
MDRV
VDMDA
PWM
CLK45
NC
NC
VDDC
VGND
DSYO0
DSYO1
DSYO2
DSYO3
DSYO4
DSYO5
DSYO6
DSYO7
NC
DSCO0
DSCO1
DSCO2
DSCO3
DSCO4
DSCO5
DSCO6
DSCO7
VDDS
VSS
VDDS
VSS
VDDS
VSS
VDDS
VSS
VDDS
VSS
VDDS
VSS
KO
NC
VDANA
NC
CLK27BO
C4303 0.1
C4304 0.1
C4305 0.1
R4326 47
C4316 0.01
R4307 *
TO OP DRIVER
IRIS_C
CAM_VD
IRIS_PWM
CLK4M5
TO AUDIO
S_SHUT
TO OSD
OSD_VD
TO DV MAIN:TBC
CLK27B
CLK27A

NOTE : The parts with marked (∗) is not used.


IC4301
JCY0200
[CAM DSP]
TO VIDEO I/O,DV_MAIN
TO DV MAIN
C4311 0.1
C4310 .1
C4309 0.1
C4308 0.1
C4307 0.1
C4306 0.1
C4313 10/6.3
C4314 0.1
C4315
R4334 0Ω
R4333 0Ω
R4332 0Ω
R4331 0Ω
R4330 0Ω
R4329 0Ω
R4328 0Ω
R4320
R4321
R4307
R4308 47
R4309 0Ω
R4318
R4316
R4319 0Ω
R4317 0Ω
R4303
R4302
R4314
R4327 0Ω
R4315 0Ω
IC4302
EC
CE
GND
VOUT
VDD
D4301
MA2Z748-X
L4301 NQR0129-002X
L4302 NQR0129-002X
REG_1.8V
REG_3.1V
GND
TL4312
TL4313
TL4314
TL4315
TL4303
VDDC
VGND
NC
AY00
AY01
AY02
AY03
AC00
AC01
AC02
AC03
INHA
INVA
ANACTL
OUTV
OUTH
DYI0
DYI1
DYI2
DYI3
DCI0
DCI1
DCI2
DCI3
INV
INH
DYO0
DYO1
DYO2
DYO3
DCO0
DCO1
DCO2
DCO3
OUT_Y0
OUT_Y1
OUT_Y2
OUT_Y3
OUT_C0
OUT_C1
OUT_C2
OUT_C3
OUT_HS
OUT_VS
TBCCTL
DSCO5
DSCO6
DSCO7
DSYIO0
DSYIO1
DSYIO2
DSYIO3
DSYIO4
DSYIO5
DSYIO6
DSYIO7
DSCIO0
DSCIO1
DSCIO2
DSCIO3
DSCIO4
DSCIO5
DSCIO6
DSCIO7
CLKDSC
HDDSC
VDDSC
FLDDSC
CLK27BO
CLK27AO
JTEST0
JTEST1
JTEST2
JTEST3
JTEST4
JTEST5
JTEST6
JTEST7
TSEL0
TSEL1
TSEL2
TCLK
TBTM
TBTCLK
TBTRST
TMC1
TMC2
CKSEL0
CKSEL1
CKSEL2
USEL
TVSEL
TCK
TMS
TRST
TDI
TDO
CTRI

	R4302	R4303
NTSC	0Ω	※
PAL	※	0Ω

■ MAIN(CAM DSP) SCHEMATIC DIAGRAM (GR-D73)

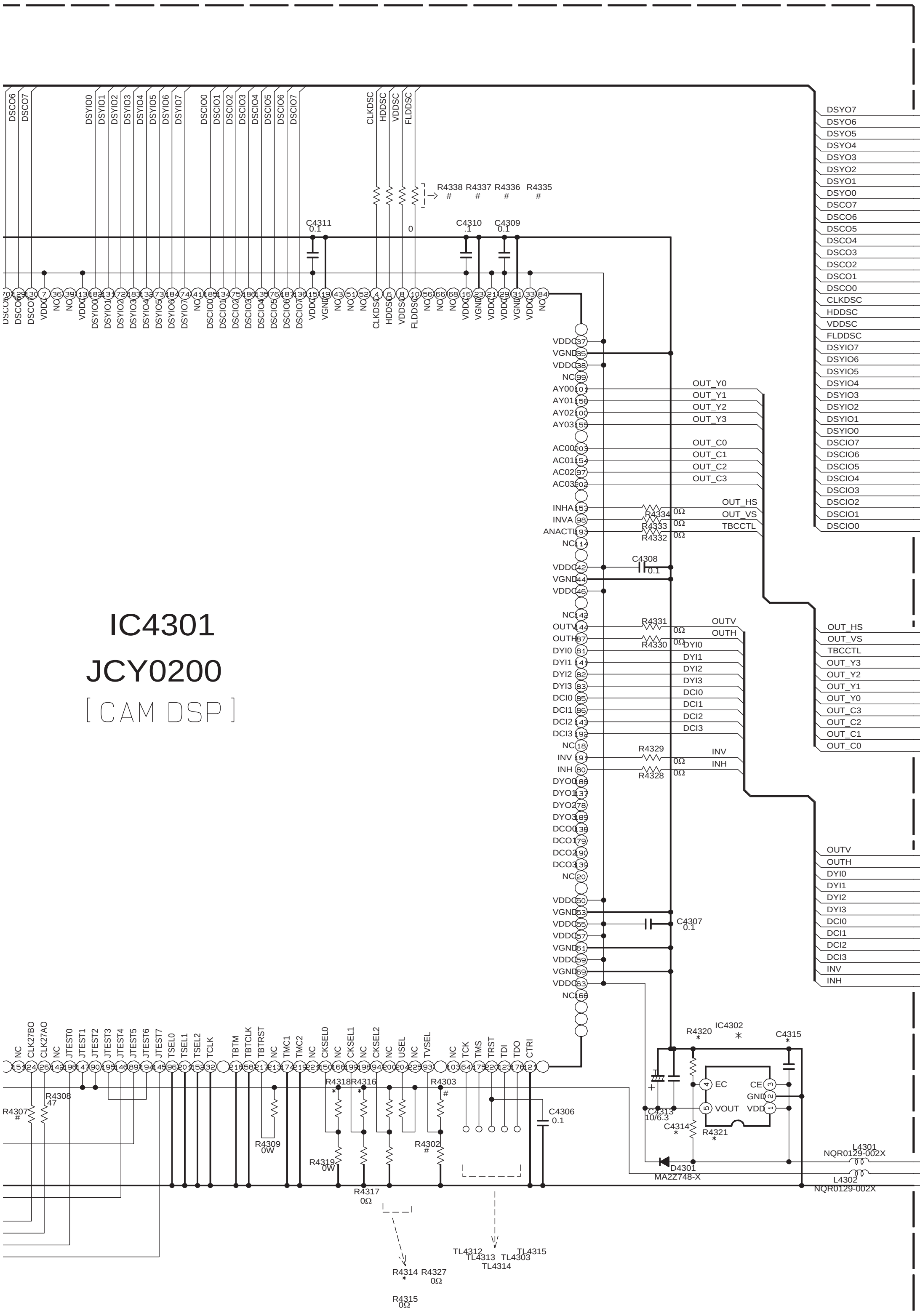


0 1 MAIN(CAM DSP)
TO TG
CLK18
CLK27
CLK54
ID
PBLK
OBCLP
XAVD
XAHD
SHP
SHD
REG_4.8V
TO CCD
CCD_OUT
TO CPU
CDS_CS
CAM_OUT
CAM_CLK
TO CPU
ADDT15
ADDT14
ADDT13
ADDT12
ADDT11
ADDT10
ADDT09
ADDT08
ADDT07
ADDT06
ADDT05
ADDT04
ADDT03
ADDT02
ADDT01
ADDT00
CDWE
CDDSTB
CDALE
CAM_CS
MVD
MFLD
OMT
DSP_RST
SYSVDSEL
TO OP DRIVER
IRIS_C
CAM_VD
IRIS_PWM
CLK4M5
TO AUDIO
S_SHUT
TO OSD
OSD_VD
TO DV MAIN:TBC
CLK27B
CLK27A
IC4202
MM1613AN-X
NQR0129-002X
L4201
CONT VIN GND NOISE VOUT
C4201 10/6.3
C4202 0.1
C4203 1
C4204 0.1
C4205 *
C4206 1
C4207 0.1
C4208 1
C4209 0.1
R4201 33k
C4210 0.1
C4211 0.1
C4212 0.1
C4213 0.1
C4214 0.1
C4216 0.1
IC4201
HD49340NP-X
[CDS/AGC/AD]
AVDD BLKSH BLKFB CDSIN BLKC BIAS AVDD AVSS ADCIN
AVSS SPSIG SPBLK OBP PBLK DVDD ADCLK DVSS DRDVDD
VRM VRT VRB DVDD DVSS CS SDATA SCK D0
D9 D8 D7 D6 D5 D4 D3 D2 D1
R4342 0Ω
R4343 0W
R4202 0Ω
R4203 0Ω
R4204 22
R4345 22
R4344 0Ω
R4346 22
R4310 0Ω
R4311 *
R4312 *
C4312 0.1
DSYO0 DSYO1 DSYO2 DSYO3 DSYO4 DSYO5 DSYO6 DSYO7
DSCO0 DSCO1 DSCO2 DSCO3 DSCO4 DSCO5 DSCO6 DSCO7
NC VDDC VGND
CLK18 CLK27 CLK54 ID OBLK OBCP VDTG HDTG NC NC
ADIN9 ADIN8 ADIN7 ADIN6 ADIN5 ADIN4 ADIN3 ADIN2 ADIN1 ADIN0
NC VSS VDDS NC
BUS15 BUS14 BUS13 BUS12 BUS11 BUS10 BUS9 BUS8 BUS7 BUS6 BUS5 BUS4 BUS3 BUS2 BUS1 BUS0
WE RE AS CS HDCPU VDCPU FLDCPU FRP OMT CLR NC VDDS VSS NC SDRV MDRV VDMDA PWM CLK45 NC
C4301 0.1
R4304 0Ω
CALE R4306 0Ω
R4339 0Ω
TL4301
R4354 0Ω
R4341 0Ω
TL4302
C4318 *
C4302 0.1
R4301 22
VDDS VSS VDDS VSS VDDS VSS VDDS VSS VDDS VSS VDDS VSS KO NC VDANA NC CLK27BO
C4303 0.1
C4304 0.1
C4305 0.1
R4326 47
R4307 #
C4316 0.01

NOTE : The parts with marked (∗) is not used.

	R4302	R4303
NTSC	0Ω	∗
PAL	∗	0Ω

	R4307	R4335	R43
DSC	47Ω	0Ω	0
NON DSC	∗	∗	∗


IC4301
JCY0200
[CAM DSP]
TO DSC
DSYO7
DSYO6
DSYO5
DSYO4
DSYO3
DSYO2
DSYO1
DSYO0
DSCO7
DSCO6
DSCO5
DSCO4
DSCO3
DSCO2
DSCO1
DSCO0
CLKDSC
HDDSC
VDDSC
FLDDSC
DSYIO7
DSYIO6
DSYIO5
DSYIO4
DSYIO3
DSYIO2
DSYIO1
DSYIO0
DSCIO7
DSCIO6
DSCIO5
DSCIO4
DSCIO3
DSCIO2
DSCIO1
DSCIO0
TO VIDEO I/O, DV_MAIN
OUT_HS
OUT_VS
TBCCTL
OUT_Y3
OUT_Y2
OUT_Y1
OUT_Y0
OUT_C3
OUT_C2
OUT_C1
OUT_C0
TO DV_MAIN
OUTV
OUTH
DYI0
DYI1
DYI2
DYI3
DCI0
DCI1
DCI2
DCI3
INV
INH
REG_1.8V
REG_3.1V
GND
R4338 R4337 R4336 R4335
C4311 0.1
C4310 .1
C4309 0.1
C4308 0.1
C4307 0.1
R4334 0Ω
R4333 0Ω
R4332 0Ω
R4331 0Ω
R4330 0Ω
R4329 0Ω
R4328 0Ω
IC4302
R4320
C4315
C4313 10/6.3
C4314
R4321
EC
CE
GND
VOUT
VDD
D4301 MA2Z748-X
L4301 NQR0129-002X
L4302 NQR0129-002X
C4306 0.1
R4303
R4302
R4318
R4316
R4319 0W
R4309 0W
R4317 0Ω
R4308 47
R4307
R4314
R4327 0Ω
R4315 0Ω
TL4312
TL4313
TL4303
TL4314
TL4315

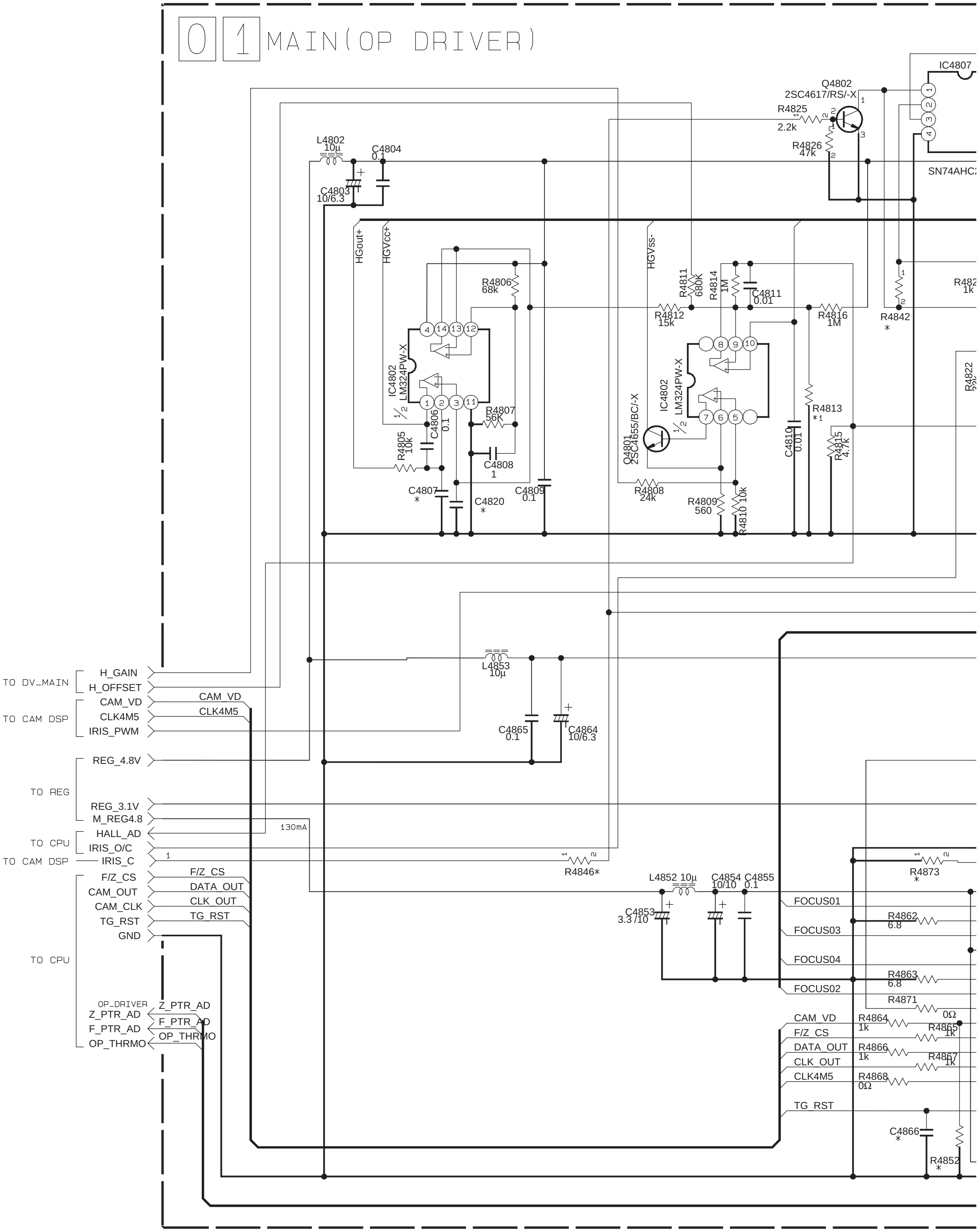
y10400001a_rev0.1

R4336	R4337	R4338
0Ω	0Ω	22Ω
*	*	*

NOTES:UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN μF.
TANTAL
CERAMIC

LAST NO		VACANT NO
IC	4302	4203-4300
R	4354	4205-4300 4305 4313 4322-4325 4340 4347-4353
C	4318	4215 4217-4300 4317
D	4301	4201-4300
L	4302	4202-4300
TL	4315	4201-4300 4304-4311

■ MAIN(OP DRIVER) SCHEMATIC DIAGRAM

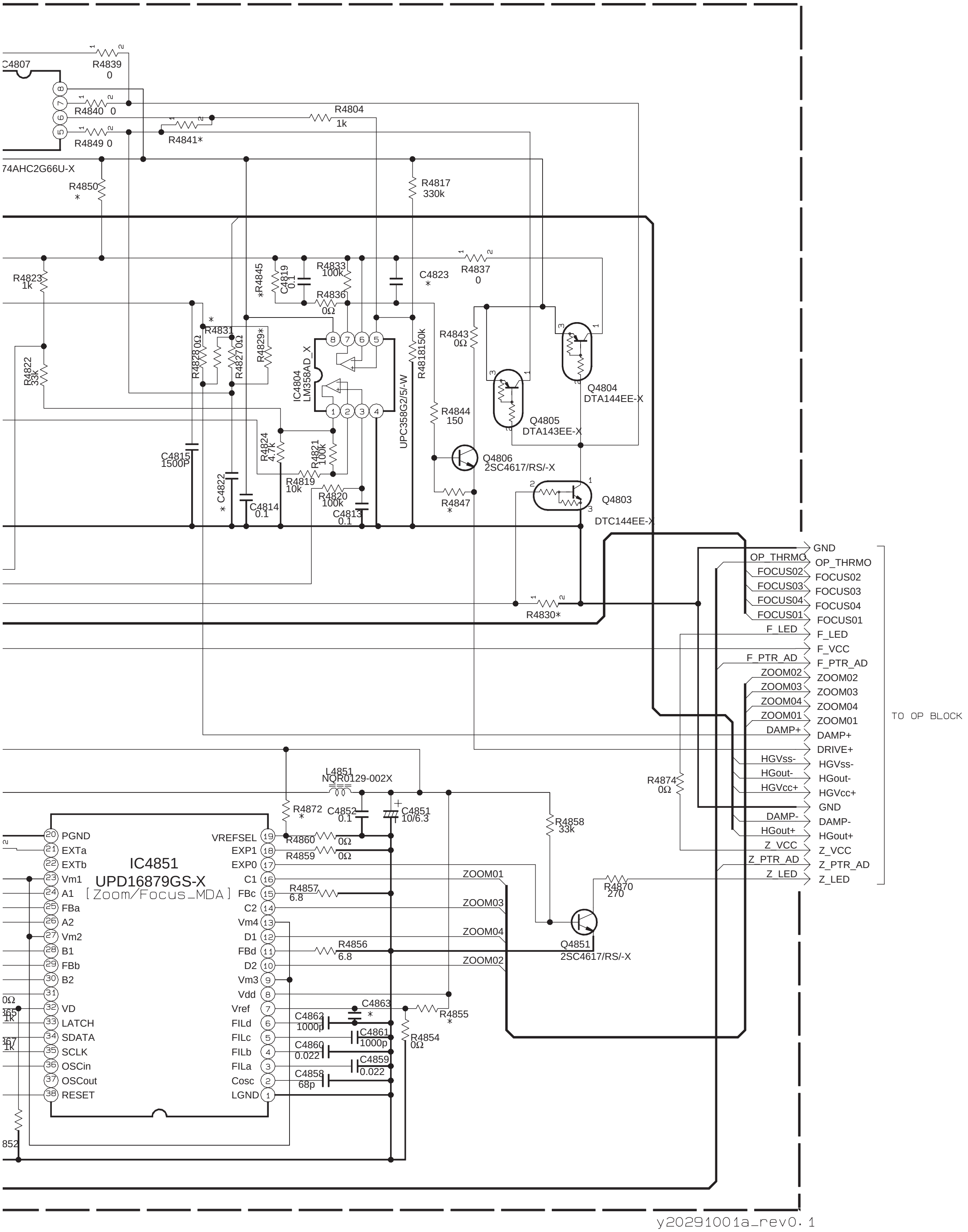

01 MAIN(OP DRIVER)
IC4807
SN74AHC
Q4802
2SC4617/RS/-X
R4825
2.2k
R4826
47k
L4802
10µ
C4804
0.1
C4803
10/6.3
HGout+
HGVcc+
HGVss-
R4806
68k
IC4802
1/2 LM324PW-X
R4807
56K
C4806
0.1
R4805
10k
C4808
1
C4807
*
C4820
*
C4809
0.1
R4811
680k
R4814
1M
C4811
0.01
R4812
15k
R4816
1M
R4842
*
R482
1k
R4822
Q4801
2SC4655/BC/-X
R4813
*1
C4810
0.01
R4815
4.7k
R4808
24k
R4809
560
R4810 10k
L4853
10µ
C4865
0.1
C4864
10/6.3
TO DV_MAIN
H_GAIN
H_OFFSET
TO CAM DSP
CAM_VD
CLK4M5
IRIS_PWM
TO REG
REG_4.8V
REG_3.1V
M_REG4.8
TO CPU
HALL_AD
IRIS_O/C
TO CAM DSP
IRIS_C
F/Z_CS
CAM_OUT
CAM_CLK
TG_RST
GND
TO CPU
OP_DRIVER
Z_PTR_AD
F_PTR_AD
OP_THRMO
CAM_VD
CLK4M5
130mA
R4846*
F/Z_CS
DATA_OUT
CLK_OUT
TG_RST
Z_PTR_AD
F_PTR_AD
OP_THRMO
L4852 10µ
C4854 10/10
C4855 0.1
C4853
3.3/10
R4873
*
FOCUS01
FOCUS03
FOCUS04
FOCUS02
R4862
6.8
R4863
6.8
R4871
0Ω
CAM_VD
F/Z_CS
DATA_OUT
CLK_OUT
CLK4M5
TG_RST
R4864
1k
R4865
1k
R4866
1k
R4867
1k
R4868
0Ω
C4866
*
R4852
*

NOTE : The parts with marked (∗) is not used.

NOTES: UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN µF.

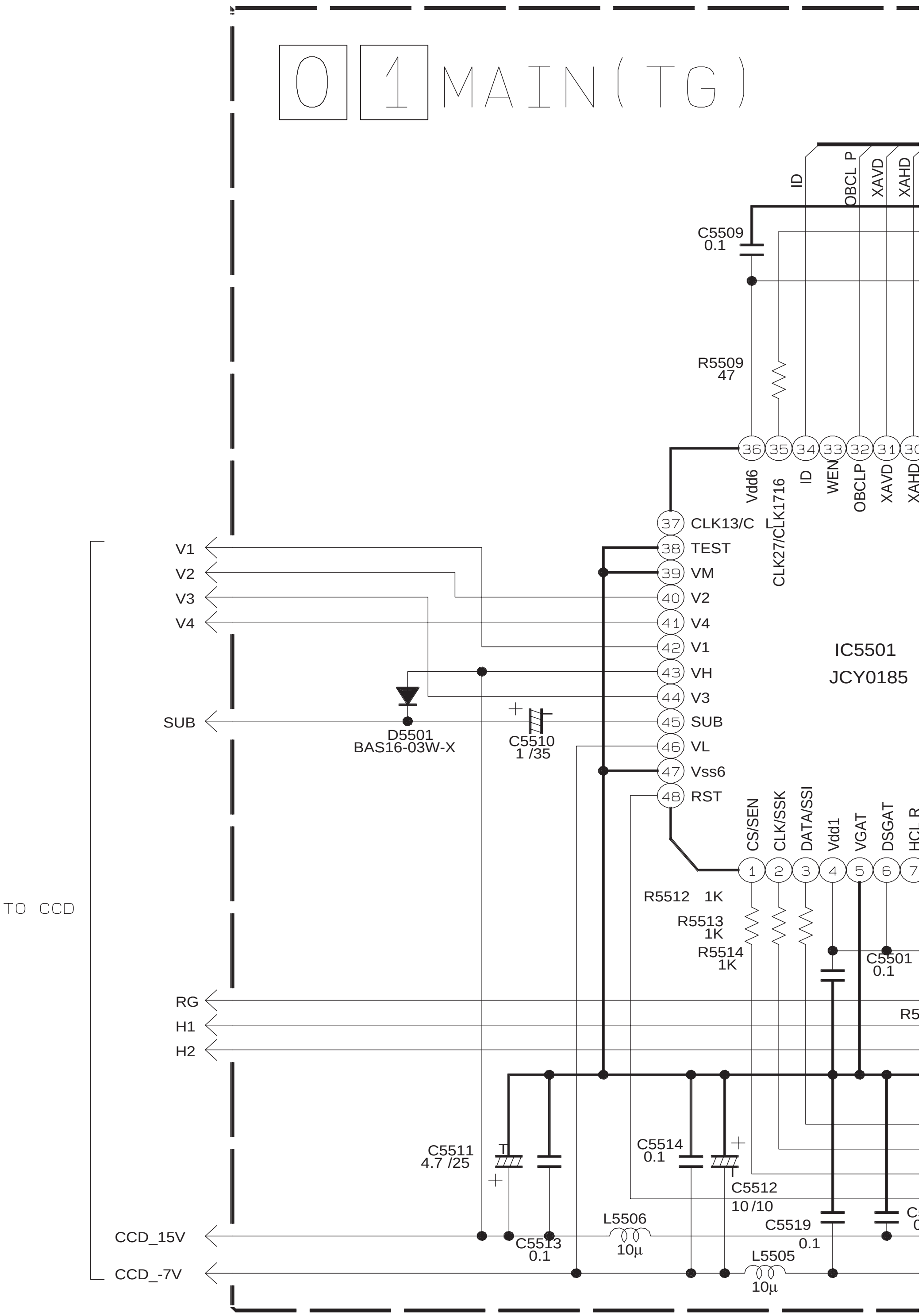
ELECTROLYTIC
CERAMIC
MYLER
NON POLAR

LAST N
R
C
D
Q
L


C4807
R4839
0
R4840 0
R4849 0
R4841*
R4804
1k
74AHC2G66U-X
R4850
*
R4817
330k
R4823
1k
R4845
C4819
0.1
R4833
100k
R4836
0Ω
C4823
*
R4837
0
R4831
R4828 0Ω
R4827 0Ω
R4829*
IC4804
LM358AD_X
R4818 150k
UPC358G2/5/-W
R4843
0Ω
Q4804
DTA144EE-X
Q4805
DTA143EE-X
R4844
150
Q4806
2SC4617/RS/-X
R4847
*
Q4803
DTC144EE-X
R4822
33k
C4815
1500P
C4822
*
C4814
0.1
R4824
4.7k
R4821
100k
R4819
10k
R4820
100k
C4813
0.1
R4830*
L4851
NQR0129-002X
R4872
*
C4852
0.1
C4851
10/6.3
R4858
33k
R4860
0Ω
R4859
0Ω
R4857
6.8
R4856
6.8
IC4851
UPD16879GS-X
[Zoom/Focus_MDA]
PGND
EXTa
EXTb
Vm1
A1
FBa
A2
Vm2
B1
FBb
B2
VD
LATCH
SDATA
SCLK
OSCin
OSCout
RESET
VREFSEL
EXP1
EXP0
C1
FBc
C2
Vm4
D1
FBd
D2
Vm3
Vdd
Vref
FILd
FILc
FILb
FILa
Cosc
LGND
C4863
*
C4862
1000p
C4861
1000p
C4860
0.022
C4859
0.022
C4858
68p
R4855
*
R4854
0Ω
ZOOM01
ZOOM03
ZOOM04
ZOOM02
Q4851
2SC4617/RS/-X
R4870
270
R4874
0Ω
852
OP_THRMO
FOCUS02
FOCUS03
FOCUS04
FOCUS01
F_LED
F_PTR_AD
DAMP+
HGVss-
HGout-
HGVcc+
DAMP-
HGout+
Z_VCC
Z_PTR_AD
Z_LED
GND
F_VCC
DRIVE+
TO OP BLOCK
y20291001a_rev0.1

LAST NO		VACANT NO
R		
C		
D		
Q		
L		

■ MAIN(TG) SCHEMATIC DIAGRAM



01 MAIN(TG)
ID
OBCL P
XAVD
XAHD
C5509
0.1
R5509
47
36 35 34 33 32 31 30
Vdd6
CLK27/CLK1716
ID
WEN
OBCLP
XAVD
XAHD
37 CLK13/C
38 TEST
39 VM
40 V2
41 V4
42 V1
43 VH
44 V3
45 SUB
46 VL
47 Vss6
48 RST
IC5501
JCY0185
V1
V2
V3
V4
SUB
D5501
BAS16-03W-X
C5510
1 /35
CS/SEN
CLK/SSK
DATA/SSI
Vdd1
VGAT
DSGAT
HCL R
1 2 3 4 5 6 7
R5512 1K
R5513
1K
R5514
1K
C5501
0.1
TO CCD
RG
H1
H2
R5
C5511
4.7 /25
C5514
0.1
C5512
10 /10
C5519
0.1
C5513
0.1
L5506
10µ
L5505
10µ
CCD_15V
CCD_-7V

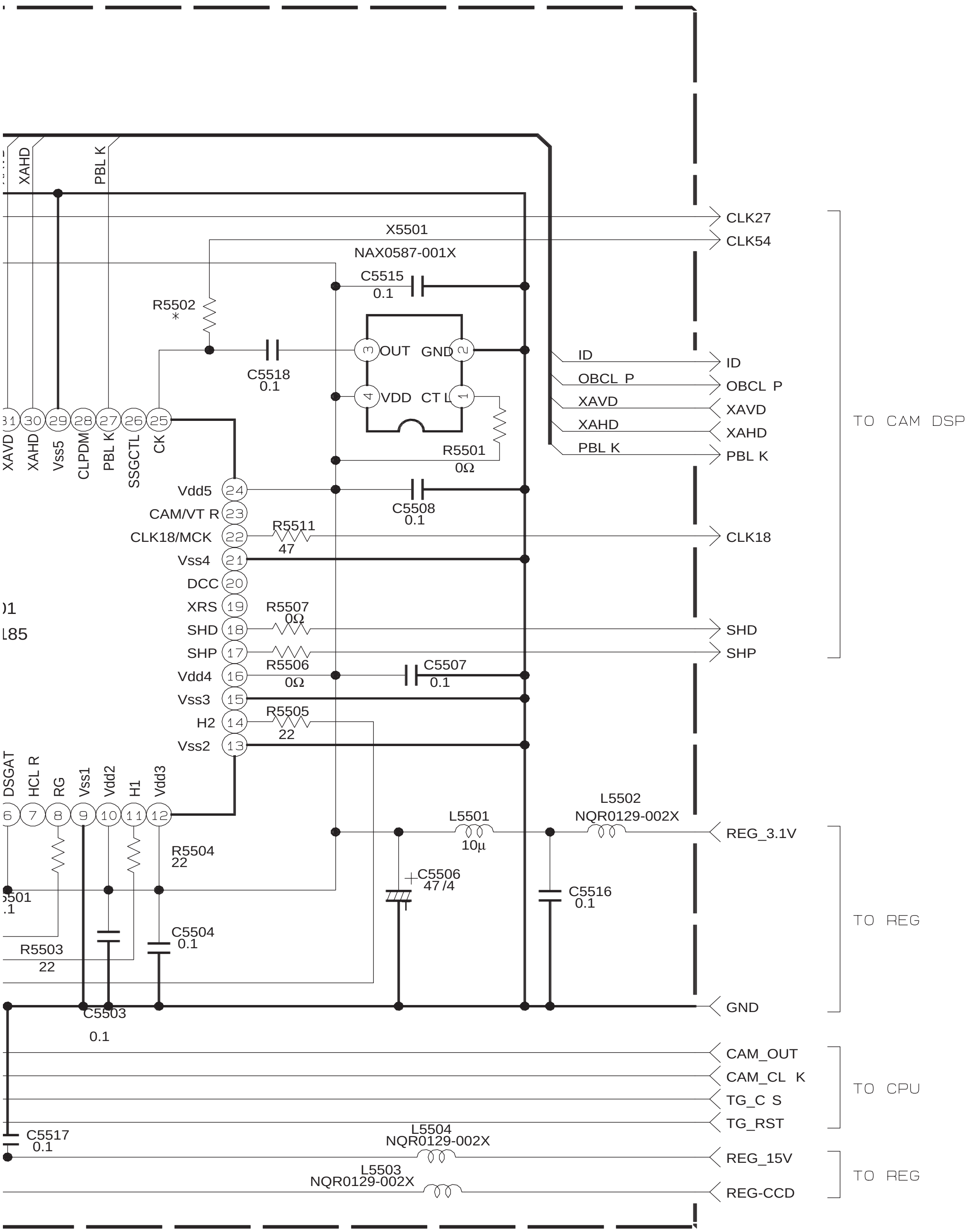
NOTE : The parts with marked (∗) is not used.

NOTES:UNLESS OTHERWISE SPECIFIED.

ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN µF.

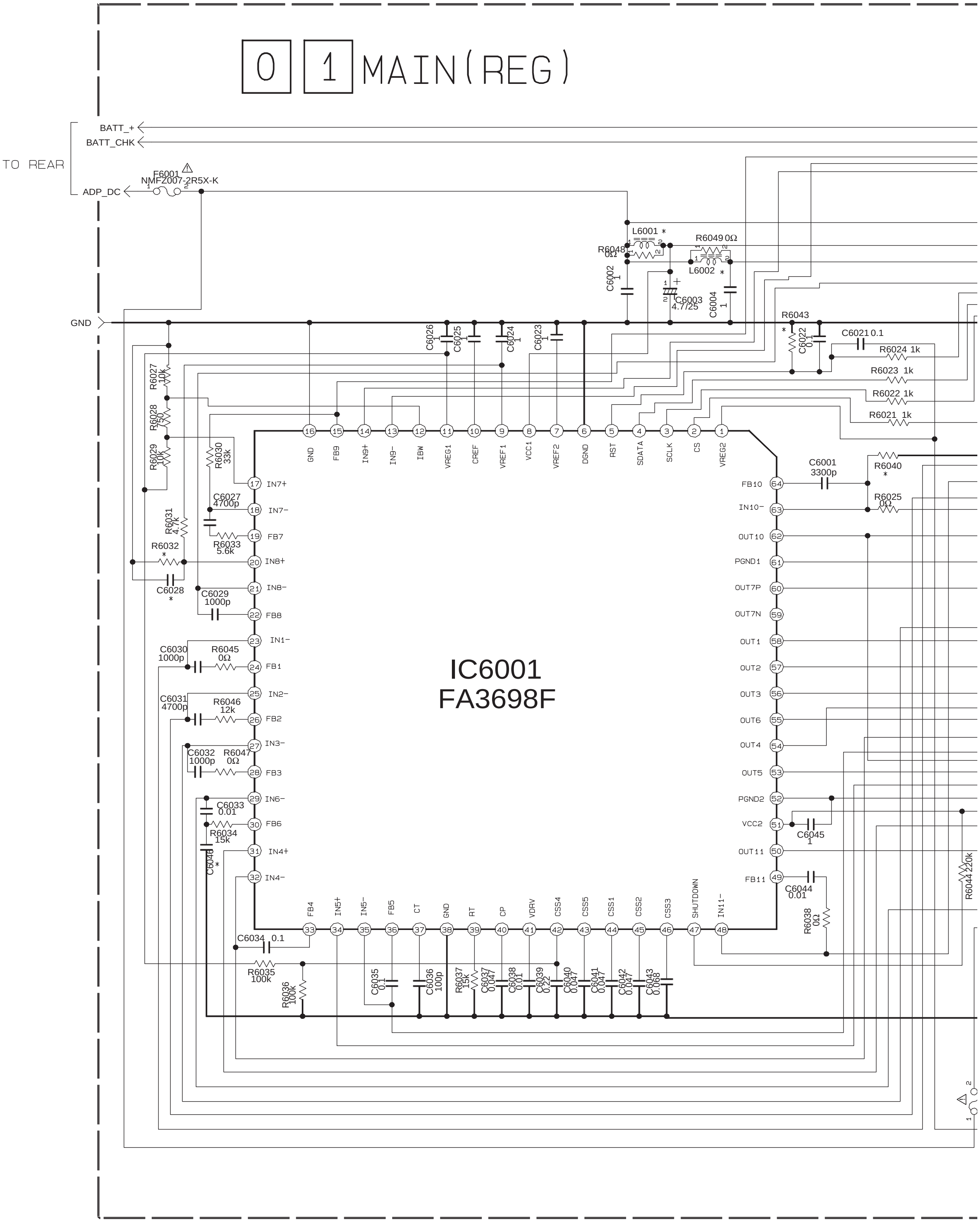
TANTAL
CERAMIC

LAST NO		VACANT NO
IC	5501	
R	5514	5508 5510
C	5519	5502 5505
D	5501	
L	5506	
X	5501	


XAHD
PBL K
X5501
NAX0587-001X
C5515
0.1
R5502
*
C5518
0.1
3 OUT
GND 2
4 VDD
CT L 1
R5501
0Ω
31 30 29 28 27 26 25
XAVD
XAHD
Vss5
CLPDM
PBL K
SSGCTL
CK
Vdd5 24
CAM/VT R 23
CLK18/MCK 22
Vss4 21
DCC 20
XRS 19
SHD 18
SHP 17
Vdd4 16
Vss3 15
H2 14
Vss2 13
C5508
0.1
R5511
47
R5507
0Ω
R5506
0Ω
C5507
0.1
R5505
22
)1
185
DSGAT
HCL R
RG
Vss1
Vdd2
H1
Vdd3
6 7 8 9 10 11 12
R5504
22
5501
.1
R5503
22
C5504
0.1
C5503
0.1
L5501
10µ
C5506
47 /4
L5502
NQR0129-002X
C5516
0.1
C5517
0.1
L5504
NQR0129-002X
L5503
NQR0129-002X
ID
OBCL P
XAVD
XAHD
PBL K
CLK27
CLK54
ID
OBCL P
XAVD
XAHD
PBL K
CLK18
SHD
SHP
TO CAM DSP
REG_3.1V
GND
TO REG
CAM_OUT
CAM_CL K
TG_C S
TG_RST
TO CPU
REG_15V
REG-CCD
TO REG

y30253001a_rev0.1

■ MAIN(REG) SCHEMATIC DIAGRAM


0 1 MAIN(REG)
TO REAR
BATT_+
BATT_CHK
ADP_DC
GND
F6001 ⚠
NMFZ007-2R5X-K
L6001 *
R6048 0Ω
R6049 0Ω
L6002 *
C6002 1
C6003 4.7/25
C6004 1
C6026 1
C6025 1
C6024 1
C6023 1
R6043 *
C6022 0.1
C6021 0.1
R6024 1k
R6023 1k
R6022 1k
R6021 1k
R6027 10k
R6028 750
R6029 10k
R6030 33k
C6027 4700p
R6031 4.7k
R6033 5.6k
R6032 *
C6028 *
C6029 1000p
C6030 1000p
R6045 0Ω
C6031 4700p
R6046 12k
C6032 1000p
R6047 0Ω
C6033 0.01
R6034 15k
C6046 *
C6034 0.1
R6035 100k
R6036 100k
C6035 0.1
C6036 100p
R6037 15k
C6037 0.047
C6038 0.01
C6039 0.22
C6040 0.047
C6041 0.047
C6042 0.047
C6043 0.068
C6001 3300p
R6040 *
R6025 0Ω
C6045 1
C6044 0.01
R6038 0Ω
R6044 220k
IC6001
FA3698F
GND FB9 IN9+ IN9- IBW VREG1 CREF VREF1 VCC1 VREF2 DGND RST SDATA SCLK CS VREG2
IN7+ IN7- FB7 IN8+ IN8- FB8 IN1- FB1 IN2- FB2 IN3- FB3 IN6- FB6 IN4+ IN4-
FB4 IN5+ IN5- FB5 CT GND RT CP VDRV CSS4 CSS5 CSS1 CSS2 CSS3 SHUTDOWN IN11-
FB10 IN10- OUT10 PGND1 OUT7P OUT7N OUT1 OUT2 OUT3 OUT6 OUT4 OUT5 PGND2 VCC2 OUT11 FB11

NOTE : The parts with marked (∗) is not used.

MAIN PWB ASSY	C6003
YB10444#-**	NBP41EM-475X
YB10449#-**	NEAF1CM-106X

NOTES:UNLESS OTHERWISE SPE

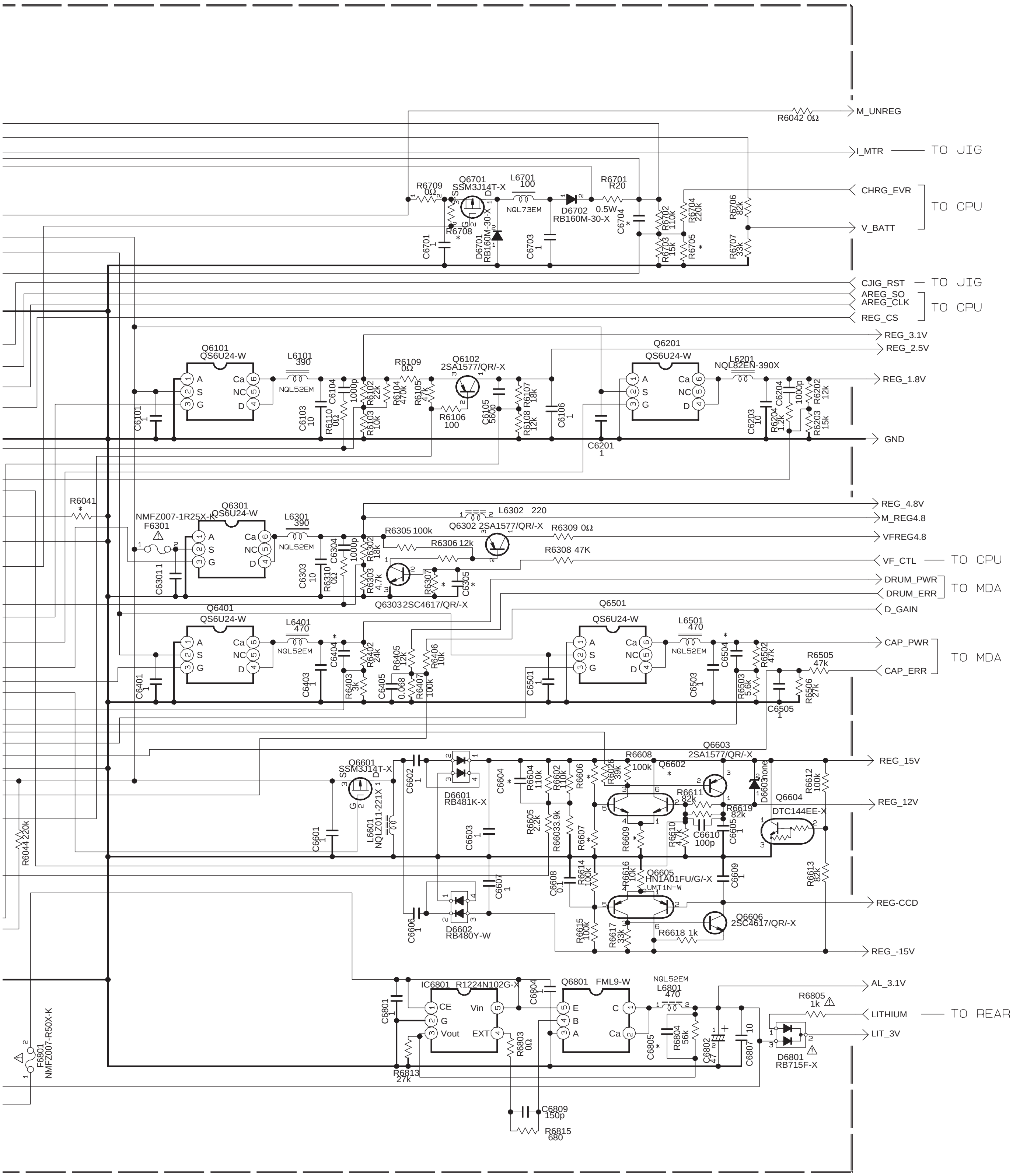
ALL RESISTANCE VALUES A

ALL INDUCTANCE VALUES A

ALL CAPACITANCE VALUES

TANTAL

CERAMIC

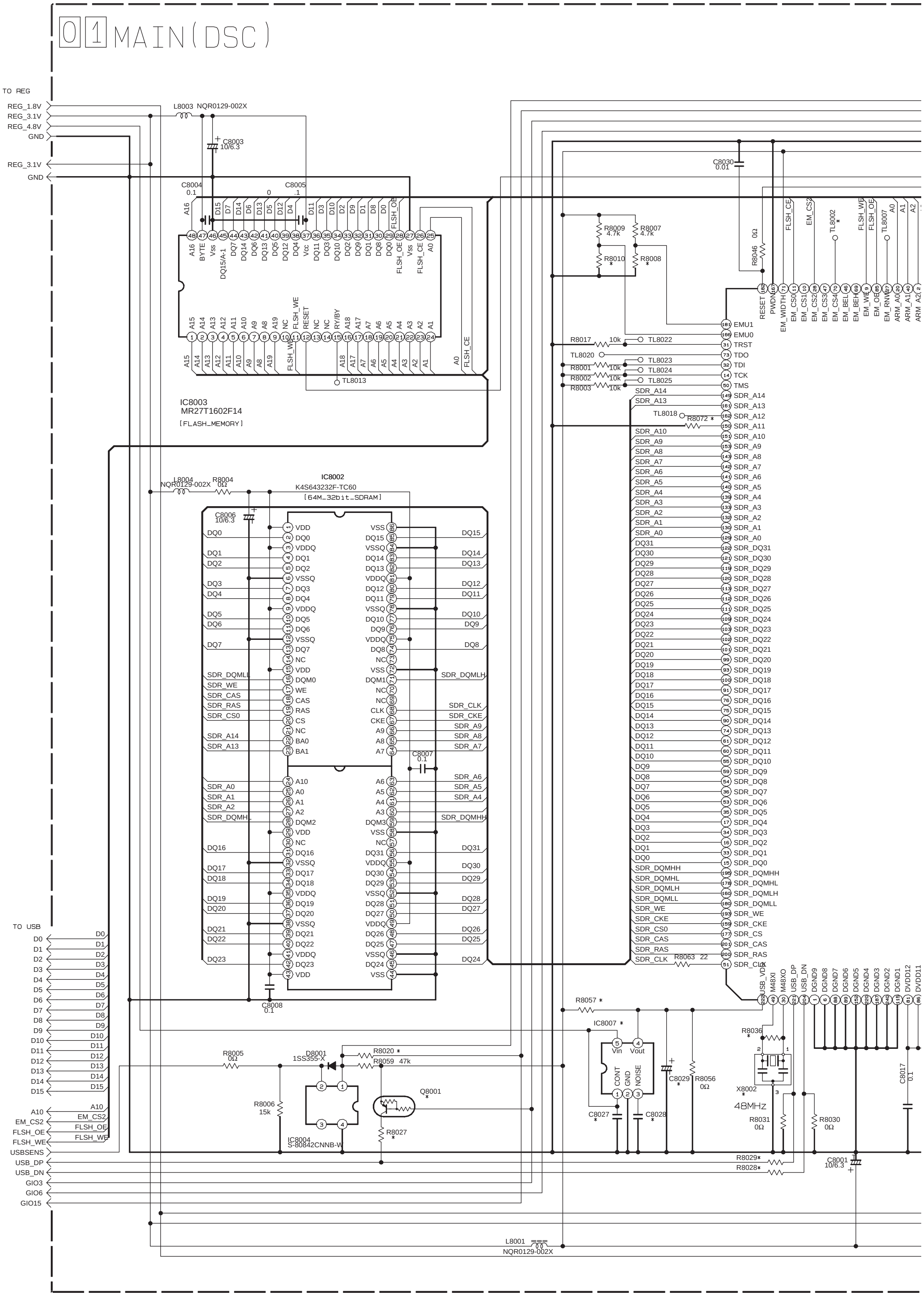

M_UNREG
R6042 0Ω
I_MTR
TO JIG
CHRG_EVR
V_BATT
TO CPU
R6709 0Ω
Q6701 SSM3J14T-X
L6701 100
NQL73EM
R6701 R20 0.5W
D6702 RB160M-30-X
R6708
C6701 1
D6701 RB160M-30-X
C6703 1
C6704
R6703 15k
R6702 100k
R6704 220k
R6705
R6706 82k
R6707 33k
CJIG_RST
AREG_SO
AREG_CLK
REG_CS
TO JIG
TO CPU
REG_3.1V
REG_2.5V
REG_1.8V
GND
Q6101 QS6U24-W
L6101 390
NQL52EM
C6101 1
C6103 10
C6104 1000p
R6110 0Ω
R6102 22k
R6103 10k
R6109 0Ω
Q6102 2SA1577/QR/-X
R6104 470k
R6105 47k
R6106 100
C6105 560p
R6107 18k
R6108 12k
C6106 1
Q6201 QS6U24-W
C6201 1
L6201 NQL82EN-390X
C6203 10
C6204 1000p
R6204 1.2k
R6202 12k
R6203 15k
R6041
NMFZ007-1R25X-K
F6301
Q6301 QS6U24-W
L6301 390
NQL52EM
C6301 1
C6303 10
C6304 1000p
R6310 0Ω
R6302 18k
R6303 4.7k
L6302 220
R6305 100k
R6306 12k
Q6302 2SA1577/QR/-X
R6309 0Ω
R6308 47K
R6307
C6305
Q6303 2SC4617/QR/-X
REG_4.8V
M_REG4.8
VFREG4.8
VF_CTL
TO CPU
DRUM_PWR
DRUM_ERR
TO MDA
D_GAIN
Q6401 QS6U24-W
L6401 470
NQL52EM
C6401 1
C6403 1
C6404
R6402 24k
R6403 3k
C6405 0.068
R6405 12k
R6406 10k
R6407 100k
Q6501 QS6U24-W
L6501 470
NQL52EM
C6501 1
C6503 1
C6504
R6503 5.6k
R6502 47k
R6505 47k
C6505 1
R6506 27k
CAP_PWR
CAP_ERR
TO MDA
Q6601 SSM3J14T-X
C6601 1
C6602 1
L6601 NQLZ011-221X
D6601 RB481K-X
C6603 1
C6604
C6606 1
D6602 RB480Y-W
C6607 1
R6604 110k
R6605 2.2k
R6603 3.9k
R6602 10k
R6606
R6607
C6608 0.1
R6614 100k
R6615 100k
R6626 39k
R6608 100k
Q6602
R6611 82k
R6609
R6610 4.7k
C6610 100p
R6616 10k
R6617 33k
R6618 1k
Q6605 HN1A01FU/G/-X
UMT1N-W
Q6603 2SA1577/QR/-X
D6603 none
R6619 82k
C6605 1
C6609 1
Q6604 DTC144EE-X
R6612 100k
R6613 82k
Q6606 2SC4617/QR/-X
REG_15V
REG_12V
REG-CCD
REG_-15V
R6044 220k
F6801 NMFZ007-R50X-K
IC6801 R1224N102G-X
CE
G
Vout
Vin
EXT
C6801 1
C6804 1
R6803 0Ω
R6813 27k
C6809 150p
R6815 680
Q6801 FML9-W
E
B
A
C
Ca
NQL52EM
L6801 470
C6805
R6804 56k
C6802 47
C6807 10
R6805 1k
D6801 RB715F-X
AL_3.1V
LITHIUM
LIT_3V
TO REAR

y10401001a_rev0.1

E SPECIFIED.
_UES ARE IN OHMS.
_UES ARE IN H.
ALUES ARE IN μF.

LAST NO		VACANT NO
IC	6801	6002-6800
R	6815	6001-6020 6039 6050-6101 6111-6201 6205-6301 6304 6311-6401 6404 6408-6501 6504 6507-6601 6620-6700 6710-6802 6806-6812 6814
C	6809	6005-6020 6047-6100 6102 6107-6200 6202 6205-6300 6302 6306-6400 6402 6406-6500 6502 6506-6600 6611-6700 6702 6705-6800 6803 6806 6808
D	6801	6001-6600 6604-6700 6703-6800
Q	6801	6001-6100 6103-6200 6202-6300 6304-6400 6402-6500 6502-6600 6607-6700 6702-6800
L	6801	6003-6100 6102-6200 6202-6300 6303-6400 6402-6500 6502-6600 6602-6700 6702-6800
F	6801	6002-6300 6302-6800

■ MAIN(DSC) SCHEMATIC DIAGRAM (GR-D73)

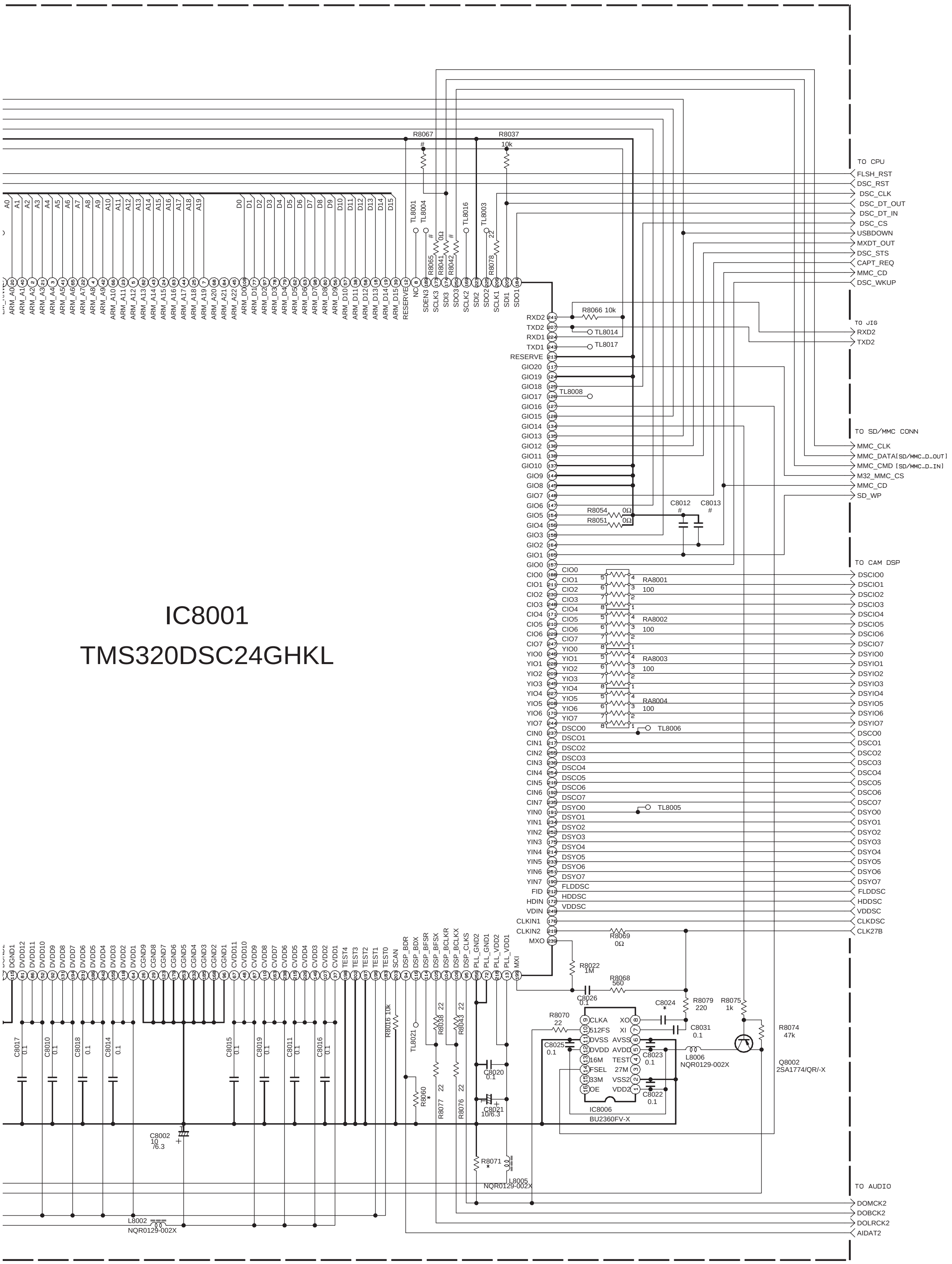


01 MAIN(DSC)
TO REG
REG_1.8V
REG_3.1V
REG_4.8V
GND
REG_3.1V
GND
L8003 NQR0129-002X
C8003 10/6.3
C8004 0.1
C8005 0.1
C8030 0.01
IC8003
MR27T1602F14
[FLASH_MEMORY]
TL8013
R8009 4.7k
R8007 4.7k
R8010
R8008
R8046 0Ω
R8017 10k
TL8022
TL8020
TL8023
R8001 10k
TL8024
R8002 10k
TL8025
R8003 10k
TL8018
R8072
EMU1
EMU0
TRST
TDO
TDI
TCK
TMS
RESET
PWDN
EM_WIDTH
EM_CS0
EM_CS1
EM_CS2
EM_CS3
EM_CS4
EM_BEL
EM_BEH
EM_WE
EM_OE
EM_RNW
ARM_A0
ARM_A1
ARM_A2
FLSH_CE
EM_CS2
TL8002
FLSH_WE
FLSH_OE
TL8007
A0
A1
A2
L8004 NQR0129-002X
R8004 0Ω
IC8002
K4S643232F-TC60
[64M_32bit_SDRAM]
C8006 10/6.3
C8007 0.1
C8008 0.1
R8063 22
TO USB
D0
D1
D2
D3
D4
D5
D6
D7
D8
D9
D10
D11
D12
D13
D14
D15
A10
EM_CS2
FLSH_OE
FLSH_WE
USBSENS
USB_DP
USB_DN
GIO3
GIO6
GIO15
R8005 0Ω
D8001 1SS355-X
R8020
R8059 47k
R8006 15k
Q8001
R8027
IC8004 S-80842CNNB-W
R8057
IC8007
Vin
Vout
CONT
GND
NOISE
C8027
C8028
C8029
R8056 0Ω
R8036
X8002
48MHz
R8031 0Ω
R8030 0Ω
R8029
R8028
C8001 10/6.3
C8017 0.1
USB_VDD
M48XI
M48XO
USB_DP
USB_DN
DGND9
DGND8
DGND7
DGND6
DGND5
DGND4
DGND3
DGND2
DGND1
DVDD12
DVDD11
L8001
NQR0129-002X

NOTE : The parts with marked (∗) is not used.

EXCHANGE PARTS LIST

SYNBOL NO. / MODEL	R8042	R8065	R8067	C8012	C8013
WEB CAM DSC	0Ω	0Ω	∗	∗	∗
WEB CAM NON DSC	∗	∗	10k	10k	10k


IC8001
TMS320DSC24GHKL
TO CPU
FLSH_RST
DSC_RST
DSC_CLK
DSC_DT_OUT
DSC_DT_IN
DSC_CS
USBDOWN
MXDT_OUT
DSC_STS
CAPT_REQ
MMC_CD
DSC_WKUP
TO JIG
RXD2
TXD2
TO SD/MMC CONN
MMC_CLK
MMC_DATA[SD/MMC_D_OUT]
MMC_CMD [SD/MMC_D_IN]
M32_MMC_CS
MMC_CD
SD_WP
TO CAM DSP
DSCIO0
DSCIO1
DSCIO2
DSCIO3
DSCIO4
DSCIO5
DSCIO6
DSCIO7
DSYIO0
DSYIO1
DSYIO2
DSYIO3
DSYIO4
DSYIO5
DSYIO6
DSYIO7
DSCO0
DSCO1
DSCO2
DSCO3
DSCO4
DSCO5
DSCO6
DSCO7
DSYO0
DSYO1
DSYO2
DSYO3
DSYO4
DSYO5
DSYO6
DSYO7
FLDDSC
HDDSC
VDDSC
CLKDSC
CLK27B
TO AUDIO
DOMCK2
DOBCK2
DOLRCK2
AIDAT2
R8067 #
R8037 10k
TL8001
TL8004
TL8016
TL8003
R8065 #
R8041 0Ω
R8042 #
R8078 22
R8066 10k
TL8014
TL8017
TL8008
R8054 0Ω
R8051 0Ω
C8012 #
C8013 #
RA8001 100
RA8002 100
RA8003 100
RA8004 100
TL8006
TL8005
R8069 0Ω
R8022 1M
R8068 560
C8026 0.1
C8024 *
R8079 220
R8075 1k
R8070 22
C8031 0.1
R8074 47k
C8025 0.1
C8023 0.1
L8006 NQR0129-002X
Q8002 2SA1774/QR/-X
C8022 0.1
IC8006 BU2360FV-X
CLKA
512FS
DVSS
DVDD
16M
FSEL
33M
OE
XO
XI
AVSS
AVDD
TEST
27M
VSS2
VDD2
R8016 10k
TL8021
R8038 22
R8043 22
R8060 *
R8077 22
R8076 22
C8020 0.1
C8021 10/6.3
R8071 *
L8005 NQR0129-002X
C8017 0.1
C8010 0.1
C8018 0.1
C8014 0.1
C8015 0.1
C8019 0.1
C8011 0.1
C8016 0.1
C8002 10 /6.3
L8002 NQR0129-002X
A0
A1
A2
A3
A4
A5
A6
A7
A8
A9
A10
A11
A12
A13
A14
A15
A16
A17
A18
A19
D0
D1
D2
D3
D4
D5
D6
D7
D8
D9
D10
D11
D12
D13
D14
D15
ARM_A0
ARM_A1
ARM_A2
ARM_A3
ARM_A4
ARM_A5
ARM_A6
ARM_A7
ARM_A8
ARM_A9
ARM_A10
ARM_A11
ARM_A12
ARM_A13
ARM_A14
ARM_A15
ARM_A16
ARM_A17
ARM_A18
ARM_A19
ARM_A20
ARM_A21
ARM_A22
ARM_D0
ARM_D1
ARM_D2
ARM_D3
ARM_D4
ARM_D5
ARM_D6
ARM_D7
ARM_D8
ARM_D9
ARM_D10
ARM_D11
ARM_D12
ARM_D13
ARM_D14
ARM_D15
RESERVE
NC
SDEN3
SCLK3
SDI3
SDO3
SCLK2
SDI2
SDO2
SCLK1
SDI1
SDO1
RXD2
TXD2
RXD1
TXD1
RESERVE
GIO20
GIO19
GIO18
GIO17
GIO16
GIO15
GIO14
GIO13
GIO12
GIO11
GIO10
GIO9
GIO8
GIO7
GIO6
GIO5
GIO4
GIO3
GIO2
GIO1
GIO0
CIO0
CIO1
CIO2
CIO3
CIO4
CIO5
CIO6
CIO7
YIO0
YIO1
YIO2
YIO3
YIO4
YIO5
YIO6
YIO7
CIN0
CIN1
CIN2
CIN3
CIN4
CIN5
CIN6
CIN7
YIN0
YIN1
YIN2
YIN3
YIN4
YIN5
YIN6
YIN7
FID
HDIN
VDIN
CLKIN1
CLKIN2
MXO
DGND1
DVDD12
DVDD11
DVDD10
DVDD9
DVDD8
DVDD7
DVDD6
DVDD5
DVDD4
DVDD3
DVDD2
DVDD1
CGND9
CGND8
CGND7
CGND6
CGND5
CGND4
CGND3
CGND2
CGND1
CVDD11
CVDD10
CVDD9
CVDD8
CVDD7
CVDD6
CVDD5
CVDD4
CVDD3
CVDD2
CVDD1
TEST4
TEST3
TEST2
TEST1
TEST0
SCAN
DSP_BDR
DSP_BDX
DSP_BFSR
DSP_BFSX
DSP_BCLKR
DSP_BCLKX
DSP_CLKS
PLL_GND2
PLL_GND1
PLL_VDD2
PLL_VDD1
MXI

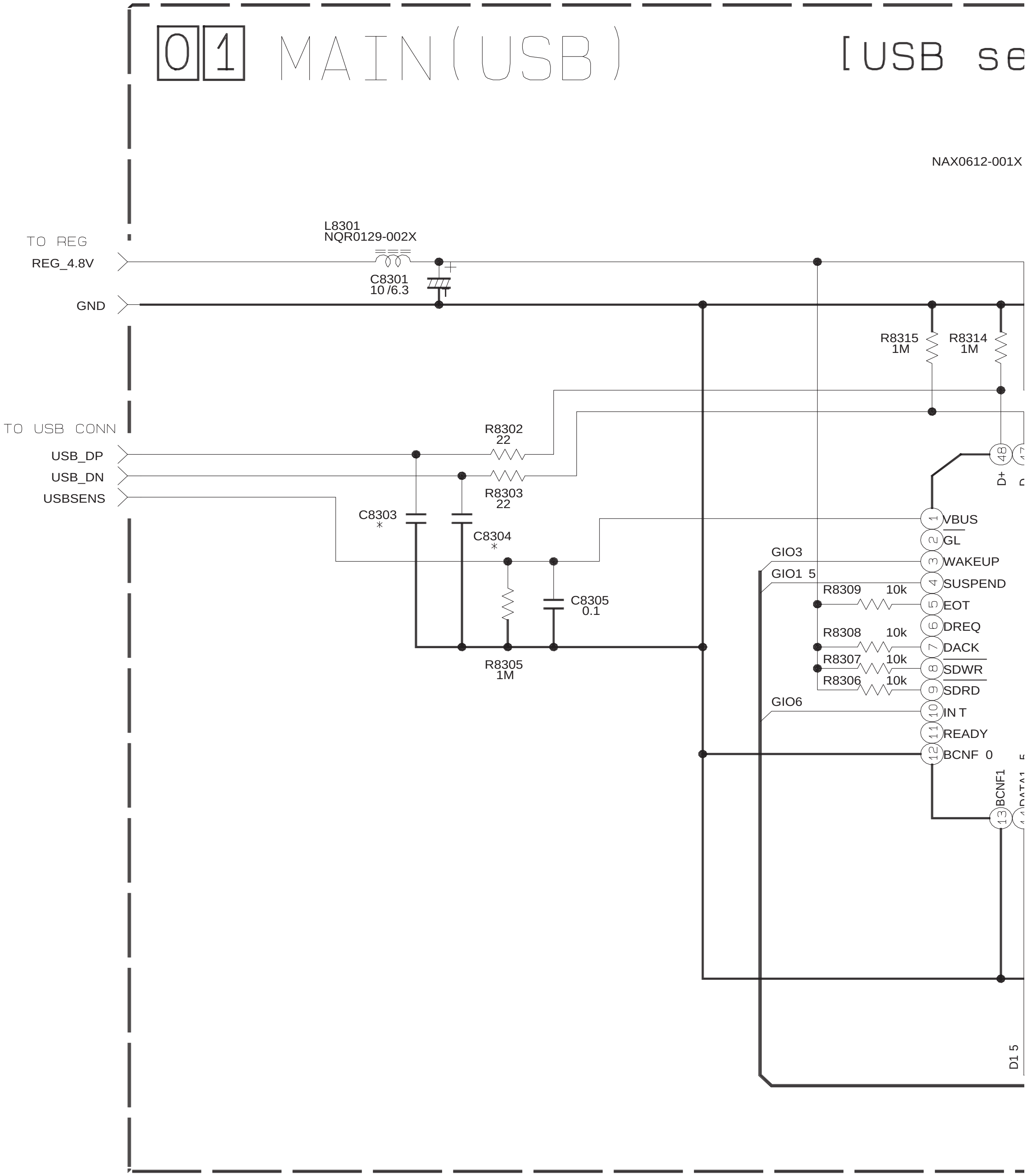
y10403001a_rev0.1

NOTES:UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN μF.

CERAMIC
TANTAL

LAST NO		VACANT NO
IC	8007	
Q	8002	
D	8001	
R	8079	8011-8015 8018-8019 8021 8023-8026 8032-8035 8039-8040 8044-8045 8047-8050 8052-8053 8055 8058 8061-8062 8064 8073
C	8031	8009
L	8006	
RA	8004	

■ MAIN(USB) SCHEMATIC DIAGRAM (GR-D73)


01 MAIN(USB)
[USB se
NAX0612-001X
TO REG
REG_4.8V
GND
L8301
NQR0129-002X
C8301
10 /6.3
R8315
1M
R8314
1M
TO USB CONN
USB_DP
USB_DN
USBSENS
R8302
22
R8303
22
C8303
*
C8304
*
C8305
0.1
R8305
1M
GIO3
GIO1 5
GIO6
R8309 10k
R8308 10k
R8307 10k
R8306 10k
48 D+
1 VBUS
2 GL
3 WAKEUP
4 SUSPEND
5 EOT
6 DREQ
7 DACK
8 SDWR
9 SDRD
10 INT
11 READY
12 BCNF 0
13 BCNF1
D1 5

NOTE : The parts with marked (∗) is not used.

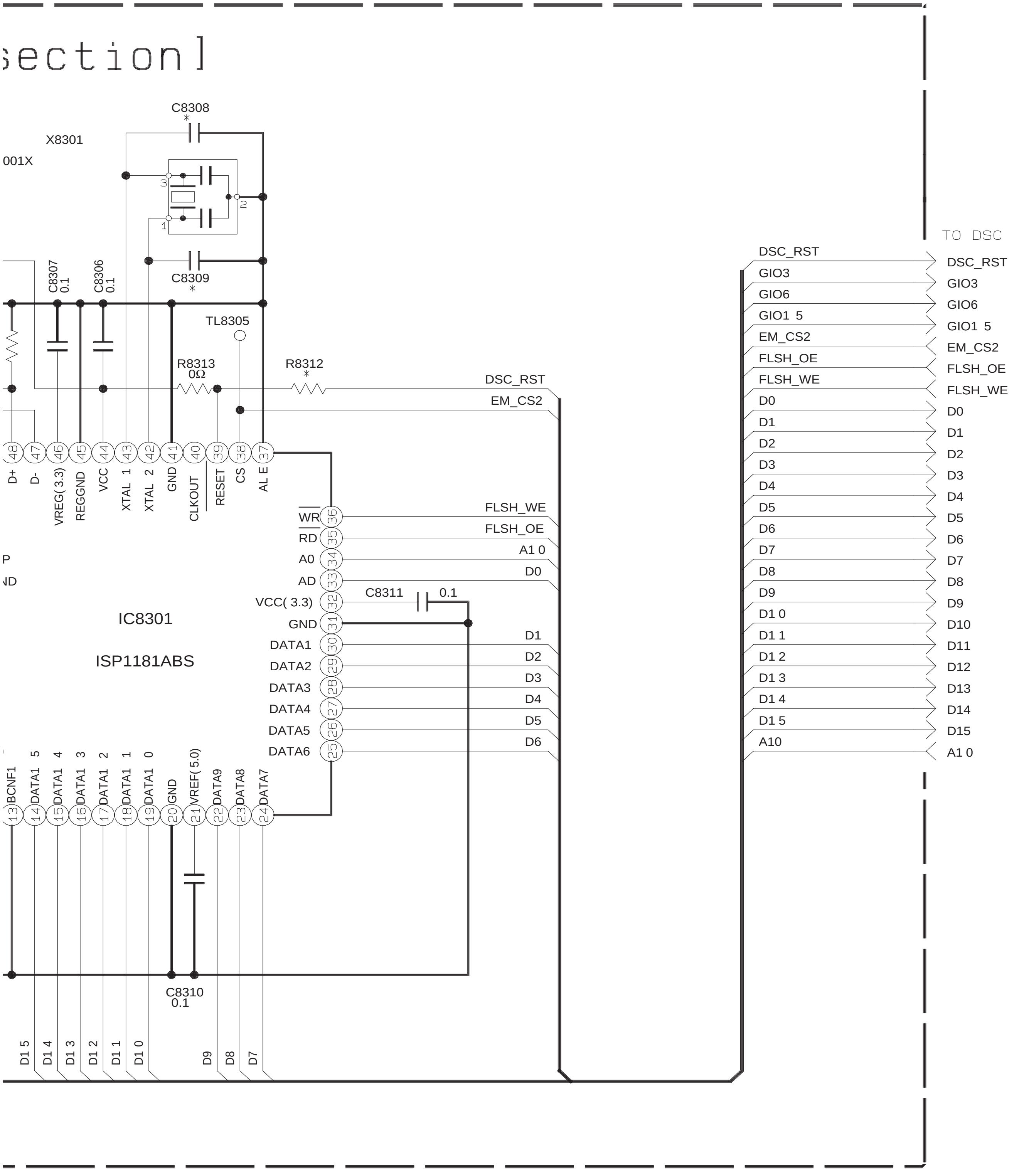
NOTES:UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN μF.

CERAMIC

TANTAL

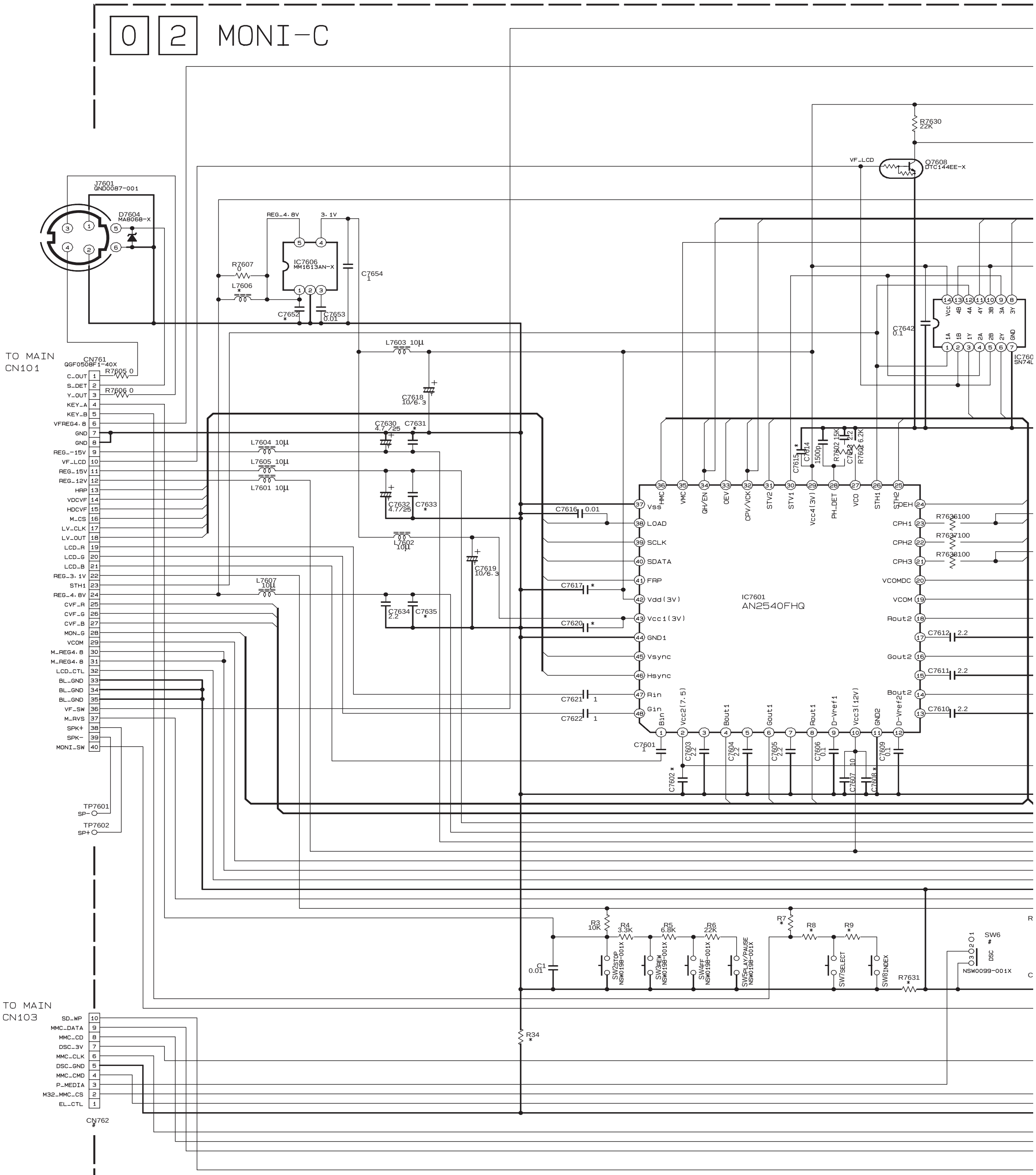
LAST NO		VACANT NO
IC	8301	
X	8301	
R	8315	8301 8304 8310-8311
C	8311	8302
L	8301	

section]



C8308
X8301
001X
C8307
0.1
C8306
0.1
C8309
TL8305
R8313
0Ω
R8312
DSC_RST
EM_CS2
48 D+
47 D-
46 VREG(3.3)
45 REGGND
44 VCC
43 XTAL 1
42 XTAL 2
41 GND
40 CLKOUT
39 RESET
38 CS
37 AL E
36 WR
35 RD
34 A0
33 AD
32 VCC(3.3)
31 GND
30 DATA1
29 DATA2
28 DATA3
27 DATA4
26 DATA5
25 DATA6
13 BCNF1
14 DATA1 5
15 DATA1 4
16 DATA1 3
17 DATA1 2
18 DATA1 1
19 DATA1 0
20 GND
21 VREF(5.0)
22 DATA9
23 DATA8
24 DATA7
P
ND
IC8301
ISP1181ABS
FLSH_WE
FLSH_OE
A1 0
D0
C8311
0.1
D1
D2
D3
D4
D5
D6
C8310
0.1
D1 5
D1 4
D1 3
D1 2
D1 1
D1 0
D9
D8
D7
TO DSC
DSC_RST
GIO3
GIO6
GIO1 5
EM_CS2
FLSH_OE
FLSH_WE
D0
D1
D2
D3
D4
D5
D6
D7
D8
D9
D1 0
D1 1
D1 2
D1 3
D1 4
D1 5
A10
DSC_RST
GIO3
GIO6
GIO1 5
EM_CS2
FLSH_OE
FLSH_WE
D0
D1
D2
D3
D4
D5
D6
D7
D8
D9
D10
D11
D12
D13
D14
D15
A1 0

■ MONI-C SCHEMATIC DIAGRAM



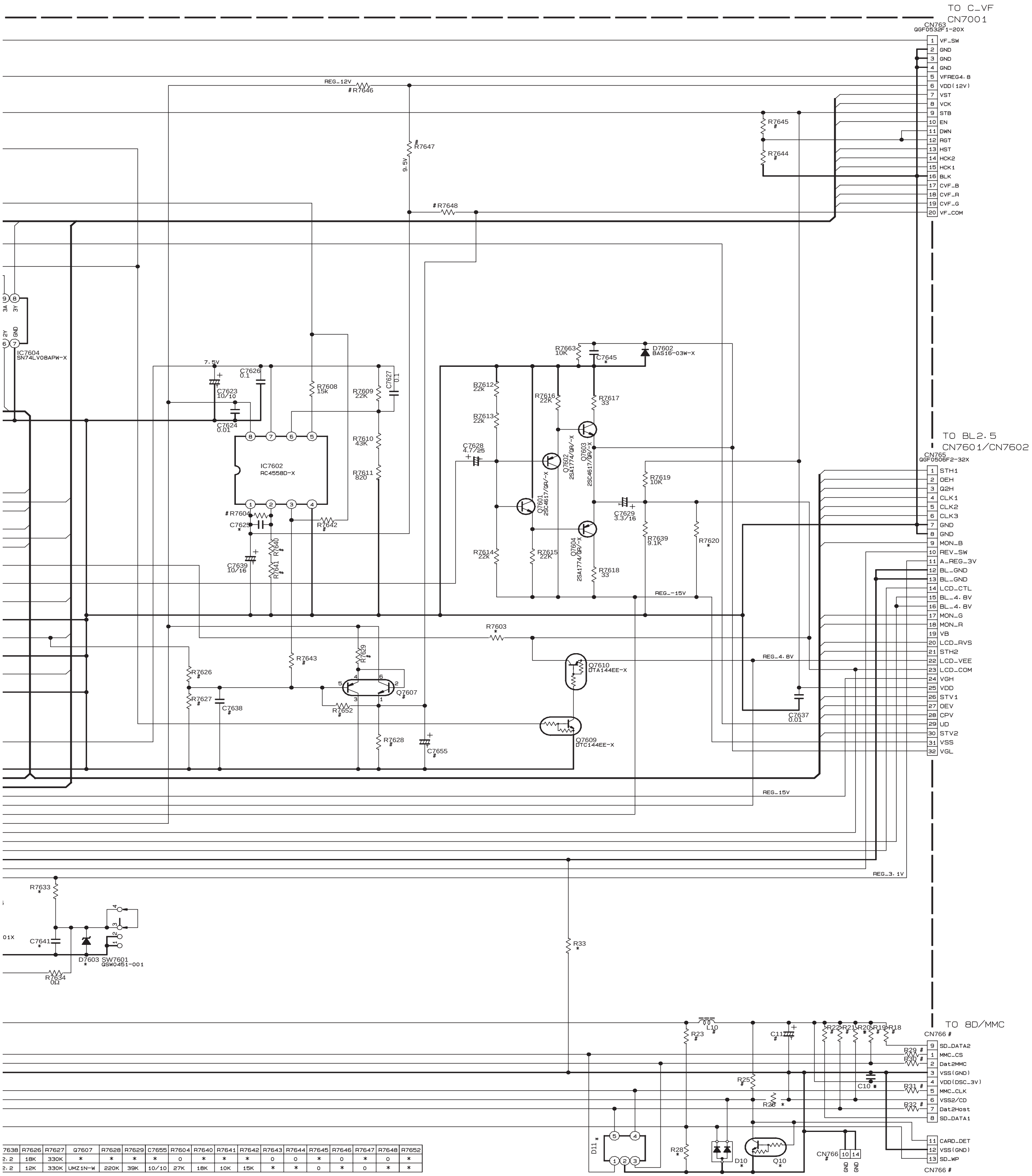
0 2 MONI-C
J7601
GND0087-001
D7604
MA8068-X
TO MAIN
CN101
CN761
QGF0508F1-40X
R7605 0
R7606 0
C_OUT
S_DET
Y_OUT
KEY_A
KEY_B
VFREG4.8
GND
GND
REG_-15V
VF_LCD
REG_15V
REG_12V
HRP
VDCVF
HDCVF
M_CS
LV_CLK
LV_OUT
LCD_R
LCD_G
LCD_B
REG_3.1V
STH1
REG_4.8V
CVF_R
CVF_G
CVF_B
MON_G
VCOM
M_REG4.8
M_REG4.8
LCD_CTL
BL_GND
BL_GND
BL_GND
VF_SW
M_RVS
SPK+
SPK-
MONI_SW
REG_4.8V
3.1V
R7607
0
IC7606
MM1613AN-X
L7606
C7652
C7653
0.01
C7654
1
L7603 10μ
C7618
10/6.3
C7630
4.7/25
C7631
L7604 10μ
L7605 10μ
L7601 10μ
C7632
4.7/25
C7633
L7602
10μ
C7619
10/6.3
L7607
10μ
C7634
2.2
C7635
C7616 0.01
C7617
C7620
C7621 1
C7622 1
IC7601
AN2540FHQ
HMC
VMC
QH/EN
OEV
CPV/VCK
STV2
STV1
Vcc4(3V)
PH_DET
VCO
STH1
STH2
Vss
LOAD
SCLK
SDATA
FRP
Vdd(3V)
Vcc1(3V)
GND1
Vsync
Hsync
Rin
Gin
Bin
Vcc2(7.5)
Bout1
Gout1
Rout1
D-Vref1
Vcc3(12V)
GND2
D-Vref2
DEH
CPH1
CPH2
CPH3
VCOMDC
VCOM
Rout2
Gout2
Bout2
R7636100
R7637100
R7638100
C7612 2.2
C7611 2.2
C7610 2.2
C7601
1
C7602
C7603
C7604
C7605
C7606
0.1
C7607
10
C7608
C7609
0.1
C7615
C7614
1500p
R7602 15K
C7613
R7603 6.2K
R7630
22K
VF_LCD
Q7608
DTC144EE-X
C7642
0.1
IC760
SN74L
Vcc 4B 4A 4Y 3B 3A 3Y
1A 1B 1Y 2A 2B 2Y GND
TP7601
SP-
TP7602
SP+
R3
10K
R4
3.3K
R5
6.8K
R6
22K
R7
R8
R9
C1
0.01
SW2STOP
SW3REW
SW4FF
SW5PLAY/PAUSE
NSW0198-001X
SW7SELECT
SW8INDEX
R7631
SW6
DSC
NSW0099-001X
R34
TO MAIN
CN103
SD_WP
MMC_DATA
MMC_CD
DSC_3V
MMC_CLK
DSC_GND
MMC_CMD
P_MEDIA
M32_MMC_CS
EL_CTL
CN762

Exchange Parts List

	CN762	CN766	SW6	SW7	SW8	R7	R8	R9	R18	R19	R21	R22	R23	R25	R29	R30	R31	R32	C10	C11	L10	D11
DSC MODEL	QGF0532F1-10X	NNZ0058-001X	NSW0099-001X	NSW0198-001X	NSW0198-001X	10K	3.3K	6.8K	47K	10K	10K	47K	100K	47K	0	0	0	0	0.1	10/6.3	NQR0129-002X	*
NON DSC MODEL	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*

	C7638	R76
NTSC	2.2	18K
PAL	2.2	12K

NOTE : The parts with marked (∗) is not used.

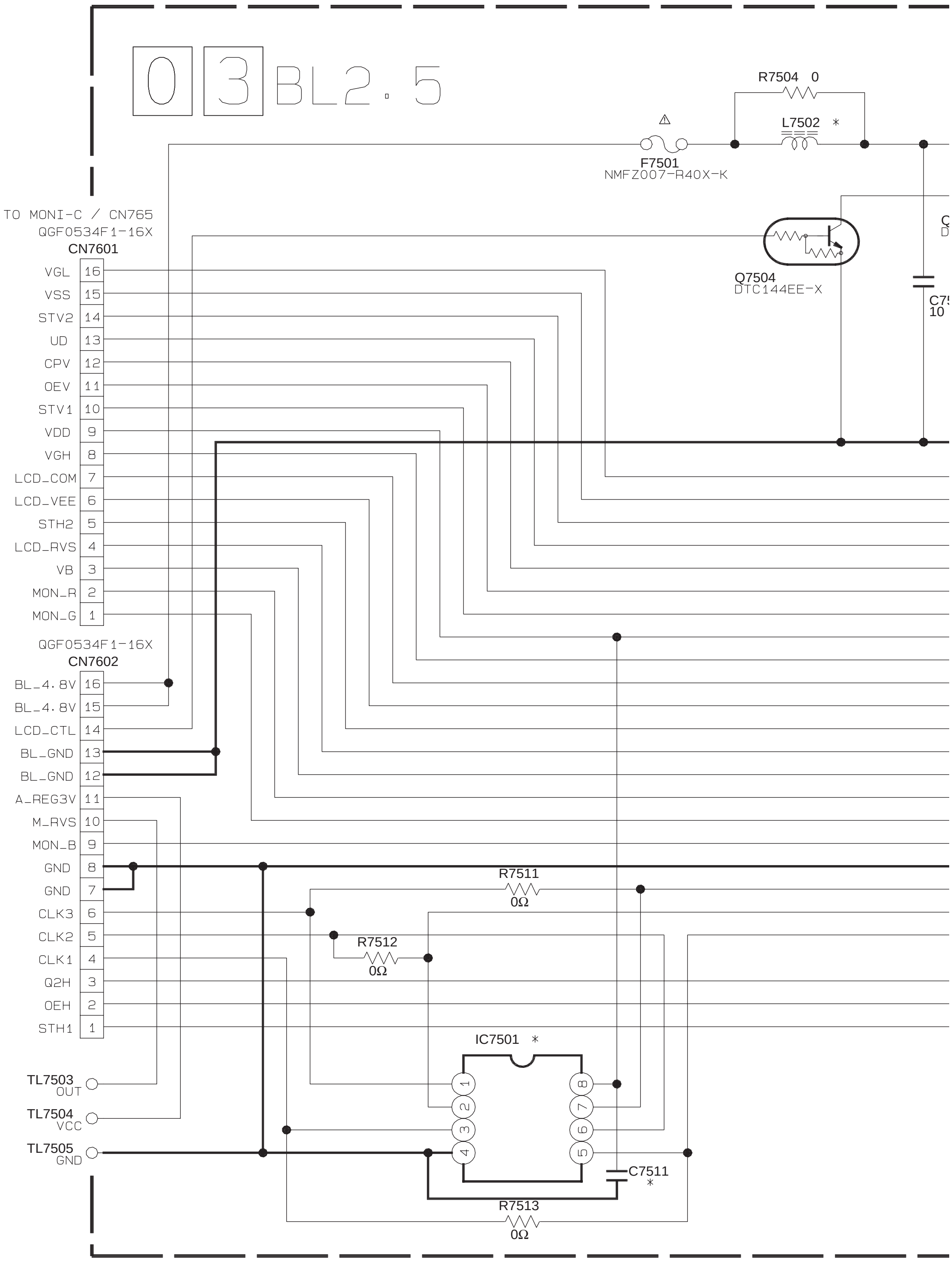

TO C_VF
CN7001
CN763
QGF0532F1-20X
1 VF_SW
2 GND
3 GND
4 GND
5 VFREG4.8
6 VDD(12V)
7 VST
8 VCK
9 STB
10 EN
11 DWN
12 RGT
13 HST
14 HCK2
15 HCK1
16 BLK
17 CVF_B
18 CVF_R
19 CVF_G
20 VF_COM
REG_12V
#R7646
#R7647
9.5V
#R7648
R7645 #
R7644 #
IC7604
SN74LV08APW-X
3Y
GND
7.5V
C7623 10/10
C7624 0.01
C7626 0.1
R7608 15K
R7609 22K
C7627 0.1
R7610 43K
R7611 820
IC7602
RC4558D-X
#R7606
C7625 *
R7640 *
R7641 *
R7642 #
C7639 10/16
R7663 10K
C7645 *
D7602
BAS16-03W-X
R7612 22k
R7613 22k
R7614 22k
R7615 22K
R7616 22K
R7617 33
R7618 33
C7628 4.7/25
Q7601 2SC4617/QR/-X
Q7602 2SA1774/QR/-X
Q7603 2SC4617/QR/-X
Q7604 2SA1774/QR/-X
R7619 10K
C7629 3.3/16
R7639 9.1K
R7620 *
REG_-15V
R7603 *
R7643 #
R7629 #
R7626 #
R7627 #
C7638 #
Q7607 #
R7652 #
R7628 #
C7655 *
Q7610
DTA144EE-X
Q7609
DTC144EE-X
REG_4.8V
C7637 0.01
TO BL2.5
CN7601/CN7602
CN765
QGF0506F2-32X
1 STH1
2 OEH
3 Q2H
4 CLK1
5 CLK2
6 CLK3
7 GND
8 GND
9 MON_B
10 REV_SW
11 A_REG_3V
12 BL_GND
13 BL_GND
14 LCD_CTL
15 BL_4.8V
16 BL_4.8V
17 MON_G
18 MON_R
19 VB
20 LCD_RVS
21 STH2
22 LCD_VEE
23 LCD_COM
24 VGH
25 VDD
26 STV1
27 OEV
28 CPV
29 UD
30 STV2
31 VSS
32 VGL
REG_15V
REG_3.1V
R7633 *
C7641 *
D7603 *
SW7601
QSW0451-001
R7634 0Ω
R33 *
L10 #
R23 #
C11 #
R25 #
R26 *
R22 #
R21 #
R20 *
R19 #
R18 #
C10 *
R29 #
R30 #
R31 #
R32 #
D11 *
R28 *
D10 *
Q10 *
CN766 #
10 14
GND GND
TO 8D/MMC
CN766 #
9 SD_DATA2
1 MMC_CS
2 Dat2MMC
3 VSS(GND)
4 VDD(DSC_3V)
5 MMC_CLK
6 VSS2/CD
7 Dat2Host
8 SD_DATA1
11 CARD_DET
12 VSS(GND)
13 SD_WP
CN766 #

7638	R7626	R7627	Q7607	R7628	R7629	C7655	R7604	R7640	R7641	R7642	R7643	R7644	R7645	R7646	R7647	R7648	R7652
2.2	18K	330K	*	*	*	*	0	*	*	*	0	0	*	0	*	0	*
2.2	12K	330K	UMZ1N-W	220K	39K	10/10	27K	18K	10K	15K	*	*	0	*	0	*	*

y10402001a_rev0.1

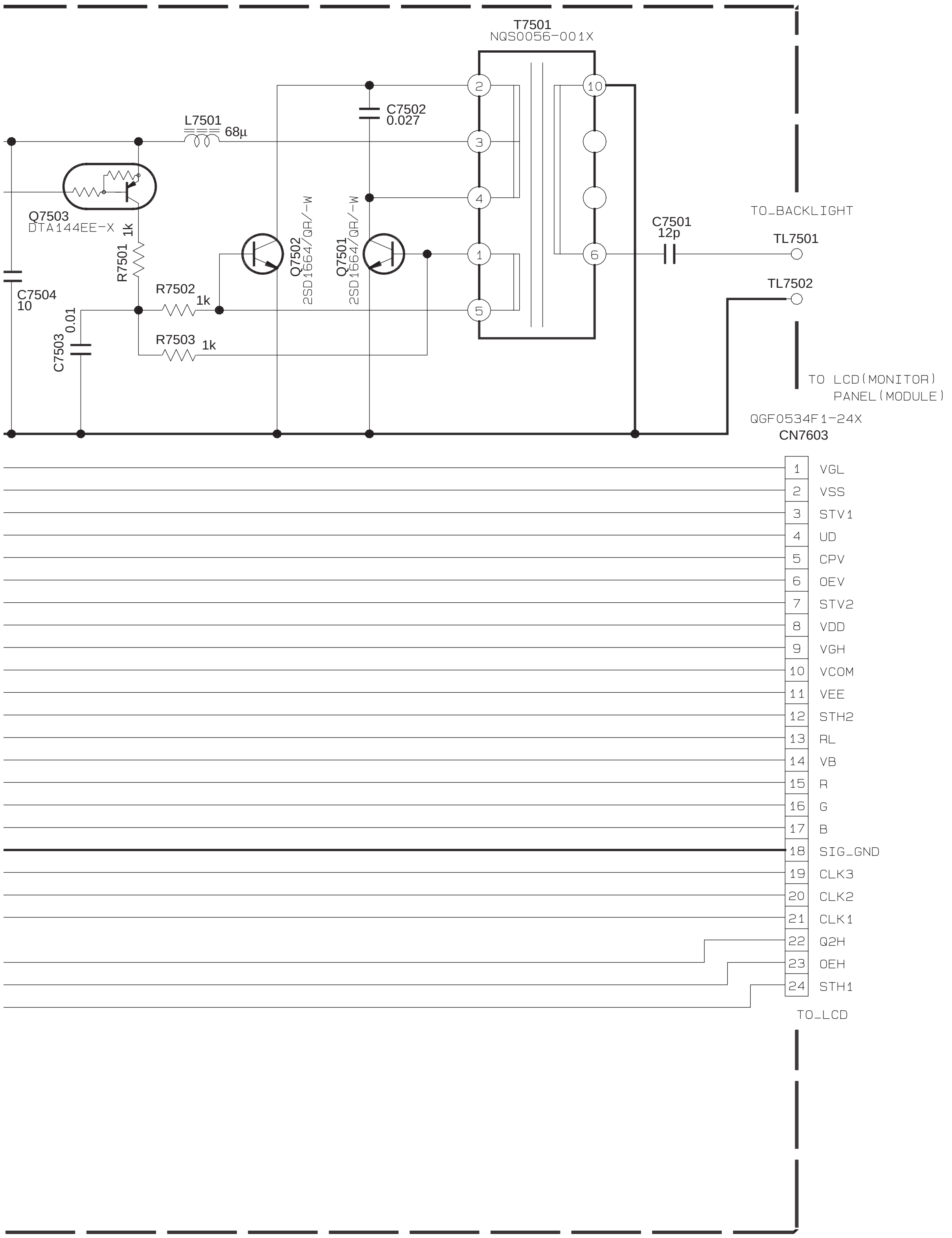
NOTES: UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN μF.
TANTAL
CERAMIC

■ BL2.5 SCHEMATIC DIAGRAM


03 BL2.5
R7504 0
L7502 *
F7501
NMFZ007-R40X-K
Q7504
DTC144EE-X
C75
10
TO MONI-C / CN765
QGF0534F1-16X
CN7601
VGL 16
VSS 15
STV2 14
UD 13
CPV 12
OEV 11
STV1 10
VDD 9
VGH 8
LCD_COM 7
LCD_VEE 6
STH2 5
LCD_RVS 4
VB 3
MON_R 2
MON_G 1
QGF0534F1-16X
CN7602
BL_4.8V 16
BL_4.8V 15
LCD_CTL 14
BL_GND 13
BL_GND 12
A_REG3V 11
M_RVS 10
MON_B 9
GND 8
GND 7
CLK3 6
CLK2 5
CLK1 4
Q2H 3
OEH 2
STH1 1
R7511
0Ω
R7512
0Ω
IC7501 *
1
2
3
4
5
6
7
8
C7511
*
R7513
0Ω
TL7503
OUT
TL7504
VCC
TL7505
GND

NOTE : The parts with marked (∗) is not used.

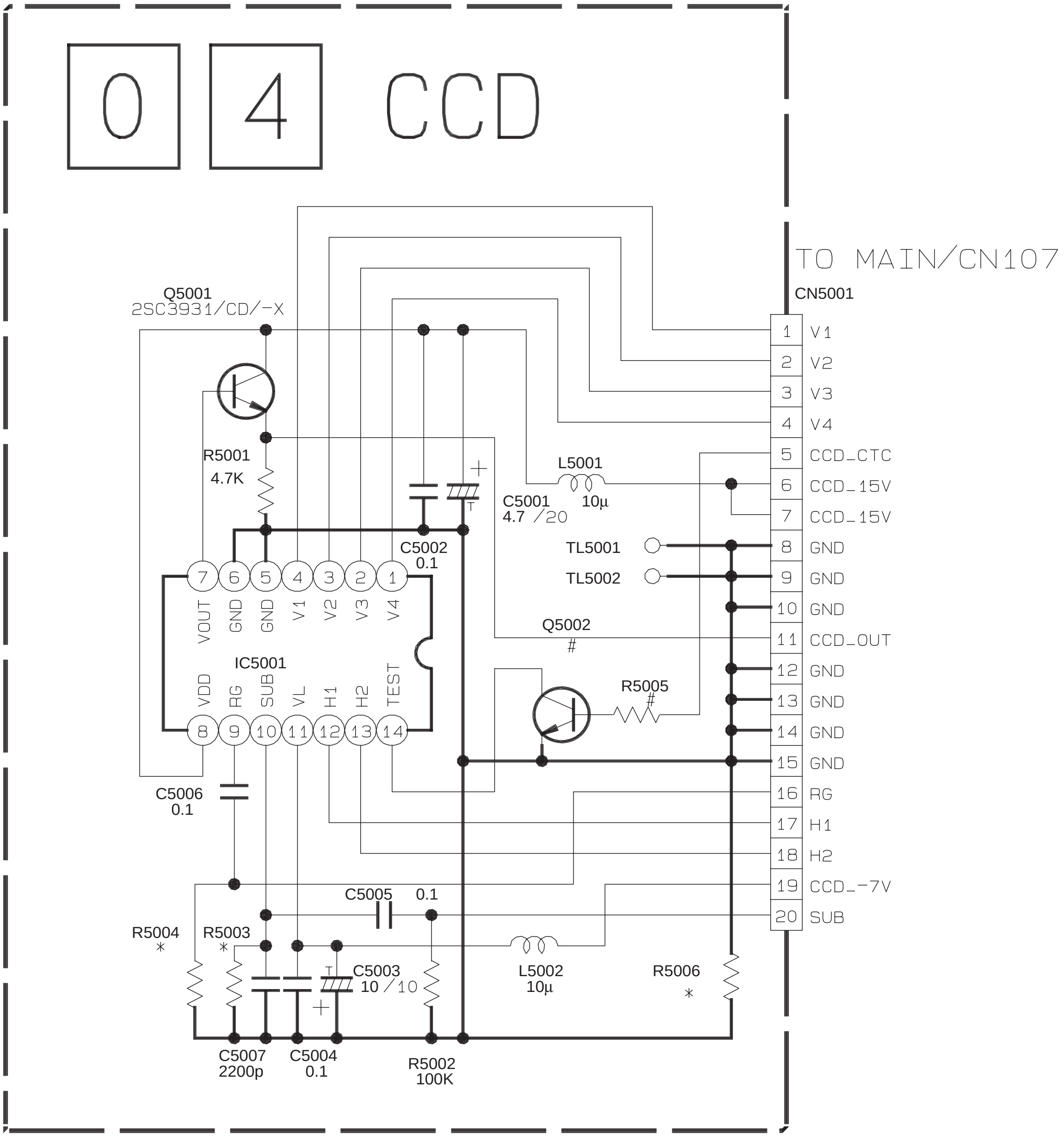
NOTES:UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN μF.
⊣⊢ CERAMIC


T7501
NQS0056-001X
L7501
68µ
C7502
0.027
Q7503
DTA144EE-X
R7501
1k
C7504
10
R7502
1k
C7503
0.01
R7503
1k
Q7502
2SD1664/QR/-W
Q7501
2SD1664/QR/-W
2
3
4
1
5
10
6
C7501
12p
TO_BACKLIGHT
TL7501
TL7502
TO LCD(MONITOR)
PANEL(MODULE)
QGF0534F1-24X
CN7603
1 VGL
2 VSS
3 STV1
4 UD
5 CPV
6 OEV
7 STV2
8 VDD
9 VGH
10 VCOM
11 VEE
12 STH2
13 RL
14 VB
15 R
16 G
17 B
18 SIG_GND
19 CLK3
20 CLK2
21 CLK1
22 Q2H
23 OEH
24 STH1
TO_LCD

y30254001a_rev0.1

■ CCD SCHEMATIC DIAGRAM

NOTE : IC5001 is incorporated in the CCD base assembly.
When IC5001 needs replacement,
replace the CCD base assembly in whole because it cannot be replaced alone.


0
4
CCD
TO MAIN/CN107
CN5001
1 V1
2 V2
3 V3
4 V4
5 CCD_CTC
6 CCD_15V
7 CCD_15V
8 GND
9 GND
10 GND
11 CCD_OUT
12 GND
13 GND
14 GND
15 GND
16 RG
17 H1
18 H2
19 CCD_-7V
20 SUB
Q5001
2SC3931/CD/-X
R5001
4.7K
C5001
4.7 /20
L5001
10µ
C5002
0.1
TL5001
TL5002
Q5002
#
R5005
#
IC5001
7 VOUT
6 GND
5 GND
4 V1
3 V2
2 V3
1 V4
8 VDD
9 RG
10 SUB
11 VL
12 H1
13 H2
14 TEST
C5006
0.1
C5005
0.1
R5004
*
R5003
*
C5003
10 /10
L5002
10µ
R5006
*
C5007
2200p
C5004
0.1
R5002
100K
T
+

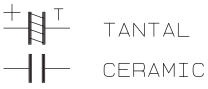
NOTE : The parts with marked (*) is not used.

y40117001a_rev0.1

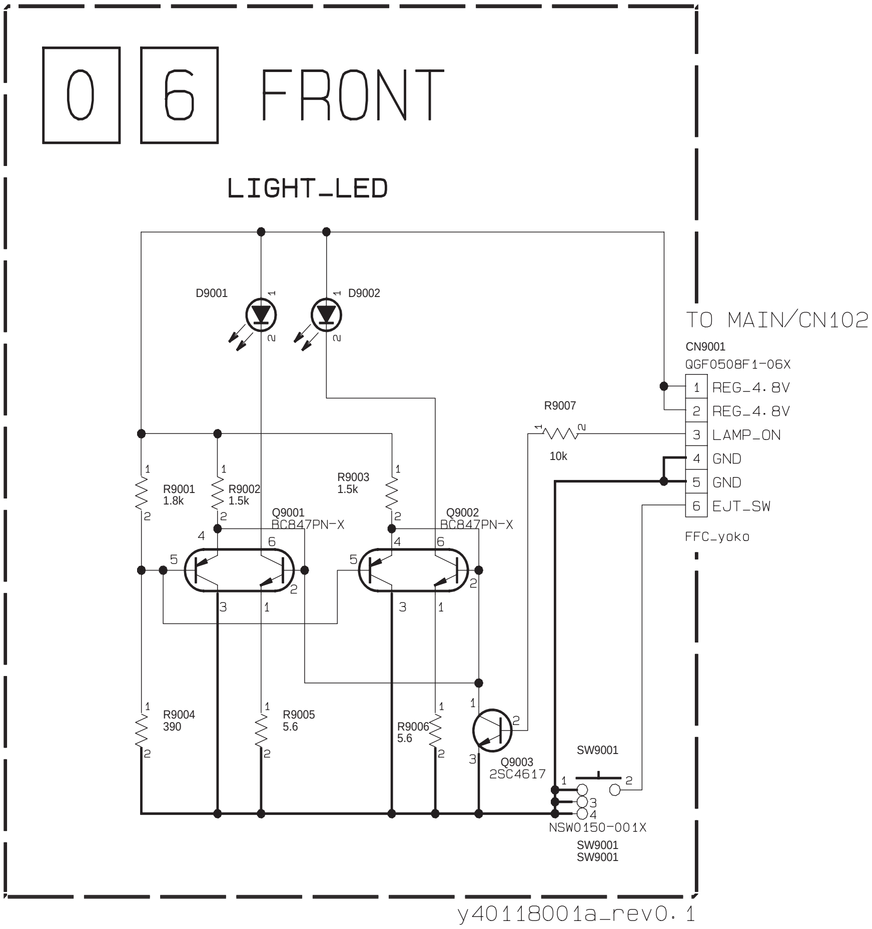
	IC5001
NTSC	ICX280JKA-V
PAL	ICX281JKA-V

DSC	Q5002	R5005
DSC MODEL	2SC4081/QR/-X or BA847BW-X	4.7K
NON DSC MODEL	*	*

NOTES:UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN µF.


+
T
TANTAL
CERAMIC

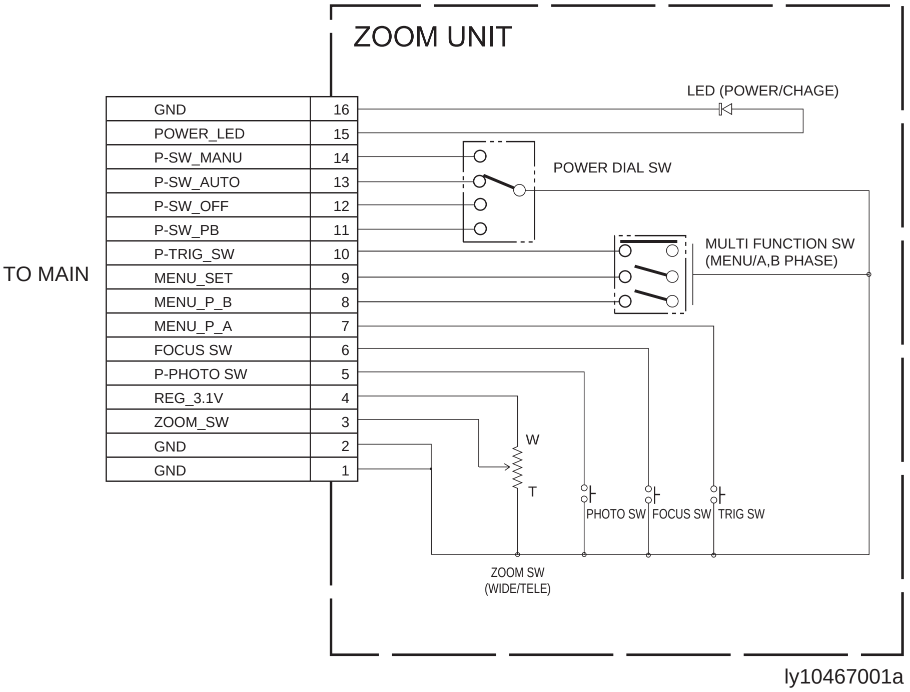
■ FRONT SCHEMATIC DIAGRAM



0 6 FRONT
LIGHT_LED
D9001
D9002
TO MAIN/CN102
CN9001
QGF0508F1-06X
1 REG_4.8V
2 REG_4.8V
3 LAMP_ON
4 GND
5 GND
6 EJT_SW
FFC_yoko
R9007
10k
R9001
1.8k
R9002
1.5k
R9003
1.5k
Q9001
BC847PN-X
Q9002
BC847PN-X
R9004
390
R9005
5.6
R9006
5.6
Q9003
2SC4617
SW9001
NSW0150-001X
SW9001
SW9001
y40118001a_rev0.1

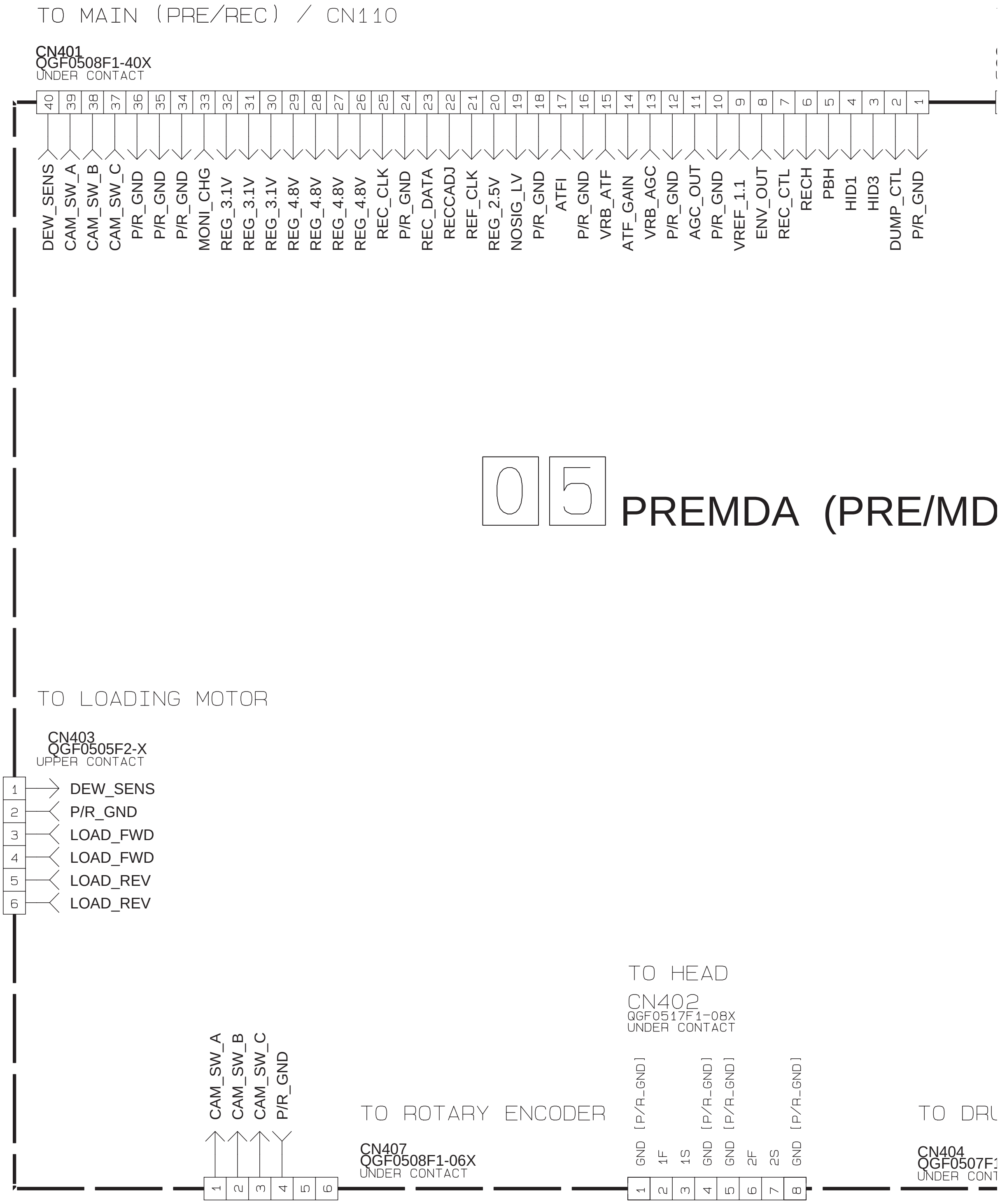
■ ZOOM UNIT SCHEMATIC DIAGRAM

NOTES : ●For the destination of each signal and further line connections that are cut off from this diagram, refer to "BOARD INTERCONNECTIONS".
●The schematic diagram is only for reference. Avoid replacing individual parts. Replace the entire unit only.



ZOOM UNIT
TO MAIN
GND 16
POWER_LED 15
P-SW_MANU 14
P-SW_AUTO 13
P-SW_OFF 12
P-SW_PB 11
P-TRIG_SW 10
MENU_SET 9
MENU_P_B 8
MENU_P_A 7
FOCUS SW 6
P-PHOTO SW 5
REG_3.1V 4
ZOOM_SW 3
GND 2
GND 1
LED (POWER/CHAGE)
POWER DIAL SW
MULTI FUNCTION SW
(MENU/A,B PHASE)
W
T
PHOTO SW
FOCUS SW
TRIG SW
ZOOM SW
(WIDE/TELE)
ly10467001a

■ PREMDA(PRE/MDA IF) SCHEMATIC DIAGRAM

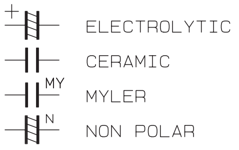

TO MAIN (PRE/REC) / CN110
CN401
QGF0508F1-40X
UNDER CONTACT
40 DEW_SENS
39 CAM_SW_A
38 CAM_SW_B
37 CAM_SW_C
36 P/R_GND
35 P/R_GND
34 P/R_GND
33 MONI_CHG
32 REG_3.1V
31 REG_3.1V
30 REG_3.1V
29 REG_4.8V
28 REG_4.8V
27 REG_4.8V
26 REG_4.8V
25 REC_CLK
24 P/R_GND
23 REC_DATA
22 RECCADJ
21 REF_CLK
20 REG_2.5V
19 NOSIG_LV
18 P/R_GND
17 ATFI
16 P/R_GND
15 VRB_ATF
14 ATF_GAIN
13 VRB_AGC
12 P/R_GND
11 AGC_OUT
10 P/R_GND
9 VREF_1.1
8 ENV_OUT
7 REC_CTL
6 RECH
5 PBH
4 HID1
3 HID3
2 DUMP_CTL
1 P/R_GND
05 PREMDA (PRE/MD
TO LOADING MOTOR
CN403
QGF0505F2-X
UPPER CONTACT
1 DEW_SENS
2 P/R_GND
3 LOAD_FWD
4 LOAD_FWD
5 LOAD_REV
6 LOAD_REV
TO HEAD
CN402
QGF0517F1-08X
UNDER CONTACT
1 GND [P/R_GND]
2 1F
3 1S
4 GND [P/R_GND]
5 GND [P/R_GND]
6 2F
7 2S
8 GND [P/R_GND]
TO ROTARY ENCODER
CN407
QGF0508F1-06X
UNDER CONTACT
1 CAM_SW_A
2 CAM_SW_B
3 CAM_SW_C
4 P/R_GND
5
6
TO DRU
CN404
QGF0507F1
UNDER CONT

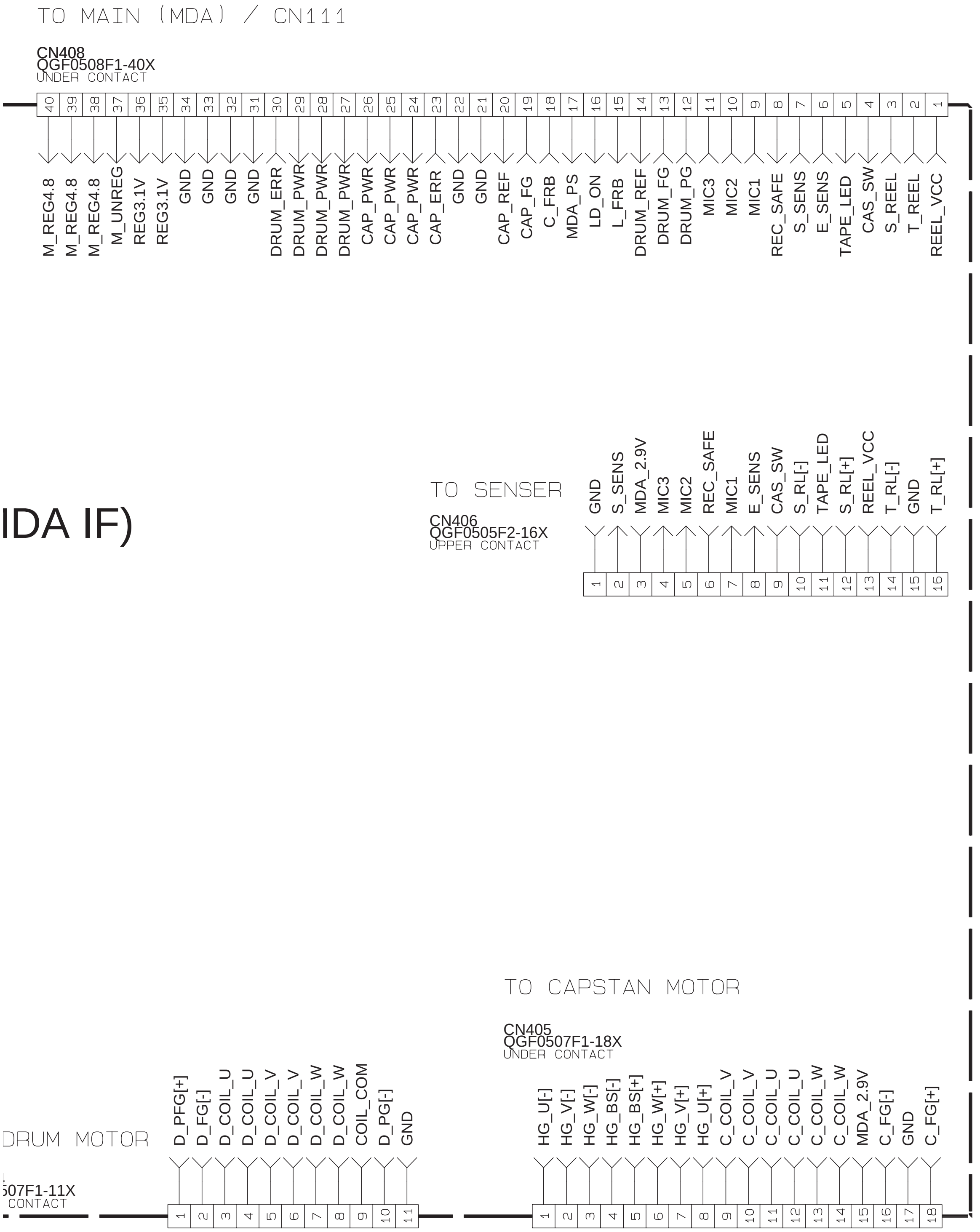
NOTES:UNLESS OTHERWISE SPECIFIED.

ALL RESISTANCE VALUES ARE IN OHMS.

ALL INDUCTANCE VALUES ARE IN H.

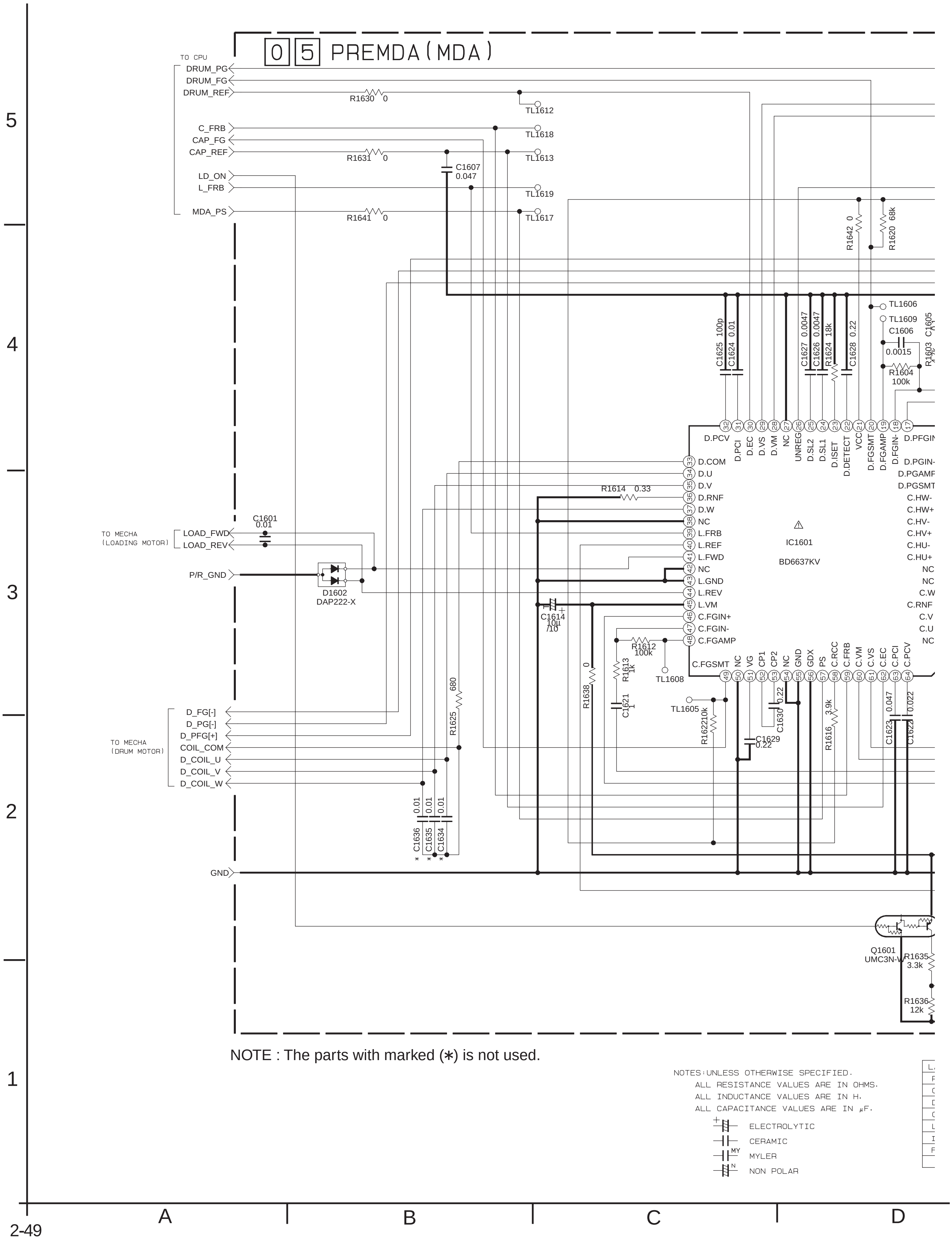
ALL CAPACITANCE VALUES ARE IN μF.


+
ELECTROLYTIC
CERAMIC
MY
MYLER
N
NON POLAR


TO MAIN (MDA) / CN111
CN408
QGF0508F1-40X
UNDER CONTACT
40 M_REG4.8
39 M_REG4.8
38 M_REG4.8
37 M_UNREG
36 REG3.1V
35 REG3.1V
34 GND
33 GND
32 GND
31 GND
30 DRUM_ERR
29 DRUM_PWR
28 DRUM_PWR
27 DRUM_PWR
26 CAP_PWR
25 CAP_PWR
24 CAP_PWR
23 CAP_ERR
22 GND
21 GND
20 CAP_REF
19 CAP_FG
18 C_FRB
17 MDA_PS
16 LD_ON
15 L_FRB
14 DRUM_REF
13 DRUM_FG
12 DRUM_PG
11 MIC3
10 MIC2
9 MIC1
8 REC_SAFE
7 S_SENS
6 E_SENS
5 TAPE_LED
4 CAS_SW
3 S_REEL
2 T_REEL
1 REEL_VCC
IDA IF)
TO SENSER
CN406
QGF0505F2-16X
UPPER CONTACT
1 GND
2 S_SENS
3 MDA_2.9V
4 MIC3
5 MIC2
6 REC_SAFE
7 MIC1
8 E_SENS
9 CAS_SW
10 S_RL[-]
11 TAPE_LED
12 S_RL[+]
13 REEL_VCC
14 T_RL[-]
15 GND
16 T_RL[+]
DRUM MOTOR
507F1-11X
CONTACT
1 D_PFG[+]
2 D_FG[-]
3 D_COIL_U
4 D_COIL_U
5 D_COIL_V
6 D_COIL_V
7 D_COIL_W
8 D_COIL_W
9 COIL_COM
10 D_PG[-]
11 GND
TO CAPSTAN MOTOR
CN405
QGF0507F1-18X
UNDER CONTACT
1 HG_U[-]
2 HG_V[-]
3 HG_W[-]
4 HG_BS[-]
5 HG_BS[+]
6 HG_W[+]
7 HG_V[+]
8 HG_U[+]
9 C_COIL_V
10 C_COIL_V
11 C_COIL_U
12 C_COIL_U
13 C_COIL_W
14 C_COIL_W
15 MDA_2.9V
16 C_FG[-]
17 GND
18 C_FG[+]

y30255001a_rev0.1

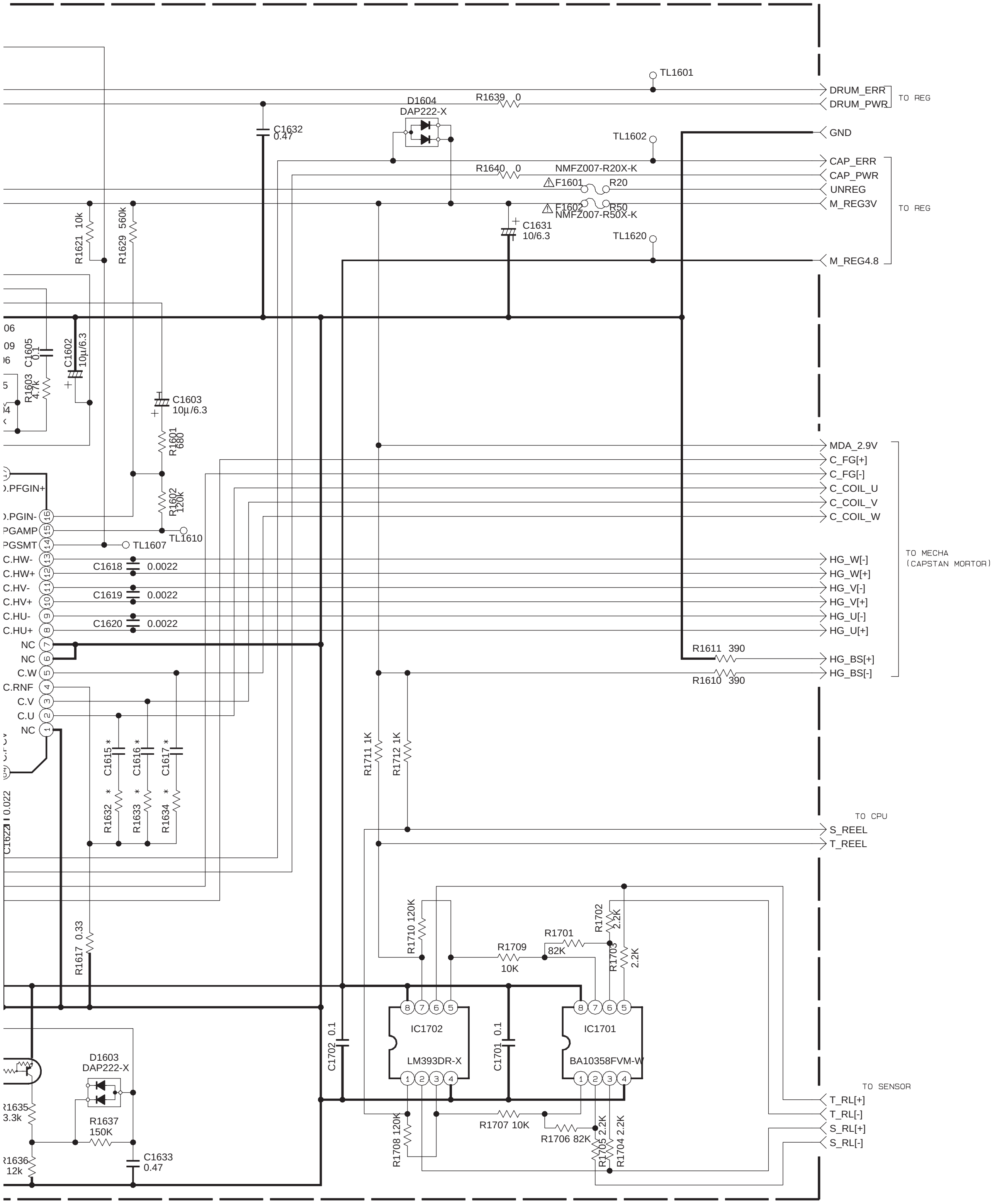
■ PREMDA(MDA) SCHEMATIC DIAGRAM


05 PREMDA(MDA)
TO CPU
DRUM_PG
DRUM_FG
DRUM_REF
C_FRB
CAP_FG
CAP_REF
LD_ON
L_FRB
MDA_PS
R1630 0
R1631 0
R1641 0
C1607 0.047
TL1612
TL1618
TL1613
TL1619
TL1617
R1642 0
R1620 68k
TL1606
TL1609
C1606 0.0015
C1605
R1603
R1604 100k
C1625 100p
C1624 0.01
C1627 0.0047
C1626 0.0047
R1624 18k
C1628 0.22
TO MECHA (LOADING MOTOR)
LOAD_FWD
LOAD_REV
C1601 0.01
P/R_GND
D1602 DAP222-X
R1614 0.33
C1614 10µ /10
IC1601
BD6637KV
D.PCV
D.PCI
D.EC
D.VS
D.VM
NC
UNREG
D.SL2
D.SL1
D.ISET
D.DETECT
VCC
D.FGSMT
D.FGAMP
D.FGIN-
D.PFGIN
D.COM
D.U
D.V
D.RNF
D.W
NC
L.FRB
L.REF
L.FWD
NC
L.GND
L.REV
L.VM
C.FGIN+
C.FGIN-
C.FGAMP
D.PGIN-
D.PGAMP
D.PGSMT
C.HW-
C.HW+
C.HV-
C.HV+
C.HU-
C.HU+
NC
NC
C.W
C.RNF
C.V
C.U
NC
C.FGSMT
NC
VG
CP1
CP2
NC
GND
GDX
PS
C.RCC
C.FRB
C.VM
C.VS
C.EC
C.PCI
C.PCV
R1612 100k
R1613 1k
TL1608
R1638 0
C1621 1
TL1605
R1622 10k
C1629 0.22
C1630 0.22
R1616 3.9k
C1623 0.047
C1622 0.022
R1625 680
TO MECHA (DRUM MOTOR)
D_FG[-]
D_PG[-]
D_PFG[+]
COIL_COM
D_COIL_U
D_COIL_V
D_COIL_W
C1636 0.01
C1635 0.01
C1634 0.01
GND
Q1601 UMC3N-W
R1635 3.3k
R1636 12k
5
4
3
2
1
A
B
C
D

NOTE : The parts with marked (∗) is not used.

NOTES:UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN µF.

ELECTROLYTIC
CERAMIC
MYLER
NON POLAR


TL1601
DRUM_ERR
DRUM_PWR
TO REG
D1604
DAP222-X
R1639 0
C1632
0.47
TL1602
GND
R1640 0
NMFZ007-R20X-K
⚠F1601
R20
CAP_ERR
CAP_PWR
UNREG
M_REG3V
⚠F1602
R50
NMFZ007-R50X-K
TO REG
R1621 10k
R1629 560k
C1631
10/6.3
TL1620
M_REG4.8
C1605
0.1
C1602
10µ/6.3
R1603
4.7k
C1603
10µ/6.3
R1601
680
R1602
120k
MDA_2.9V
C_FG[+]
C_FG[-]
C_COIL_U
C_COIL_V
C_COIL_W
TO MECHA
(CAPSTAN MORTOR)
D.PFGIN+
D.PGIN- 16
PGAMP 15
PGSMT 14
TL1607
TL1610
C.HW- 13
C.HW+ 12
C.HV- 11
C.HV+ 10
C.HU- 9
C.HU+ 8
NC 7
NC 6
C.W 5
C.RNF 4
C.V 3
C.U 2
NC 1
C1618 0.0022
C1619 0.0022
C1620 0.0022
HG_W[-]
HG_W[+]
HG_V[-]
HG_V[+]
HG_U[-]
HG_U[+]
R1611 390
R1610 390
HG_BS[+]
HG_BS[-]
R1711 1K
R1712 1K
C1615 *
C1616 *
C1617 *
R1632 *
R1633 *
R1634 *
C1622 0.022
TO CPU
S_REEL
T_REEL
R1617 0.33
R1710 120K
R1709
10K
R1701
82K
R1702
2.2K
R1703
2.2K
IC1702
LM393DR-X
IC1701
BA10358FVM-W
C1702 0.1
C1701 0.1
D1603
DAP222-X
R1635
3.3k
R1637
150K
R1636
12k
C1633
0.47
R1708 120K
R1707 10K
R1706 82K
R1705 2.2K
R1704 2.2K
TO SENSOR
T_RL[+]
T_RL[-]
S_RL[+]
S_RL[-]

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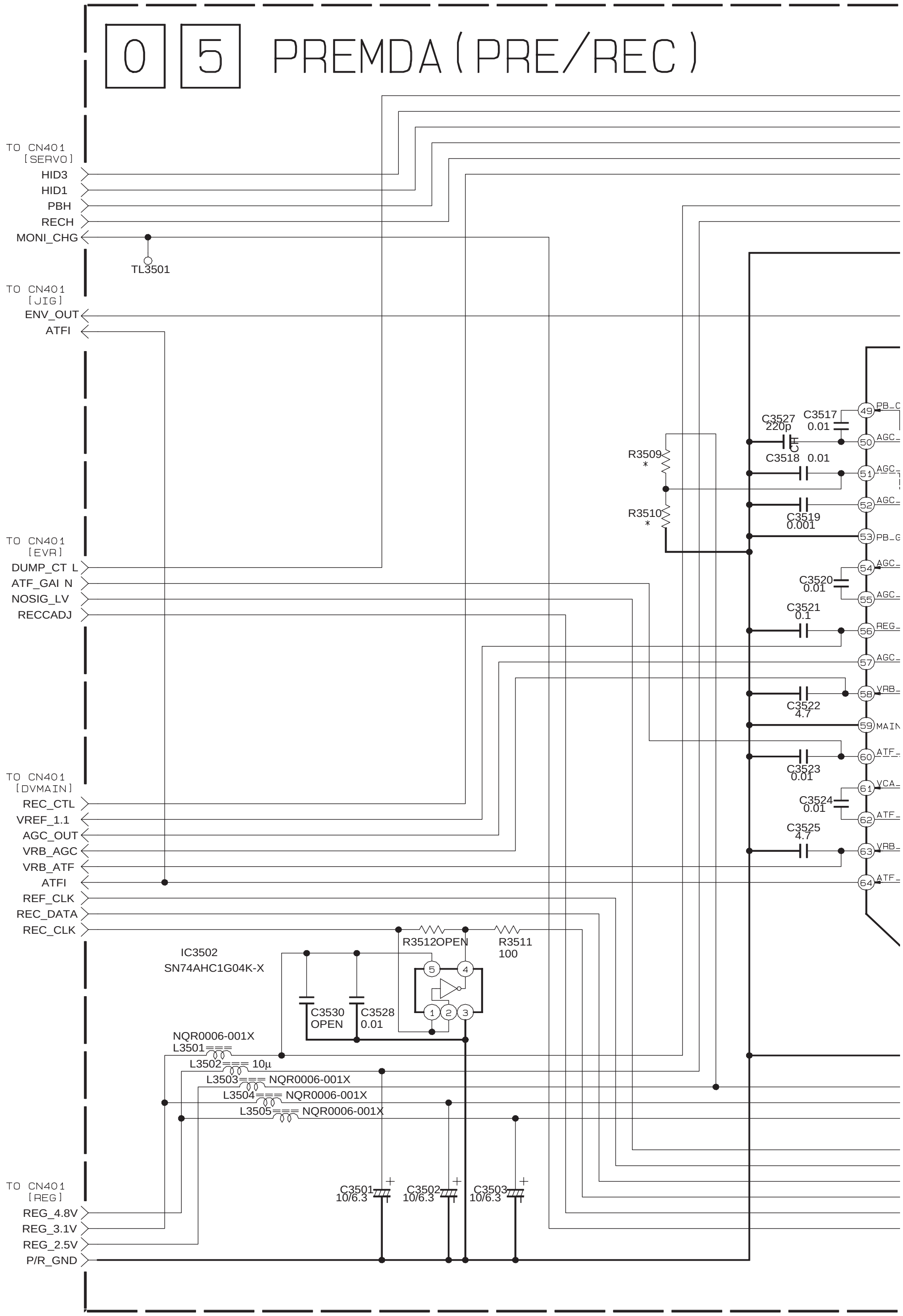
LAST NO		VACANT NO
R	1712	1605-1609, 1615, 1618, 1619, 1623, 1626-1628, 1643-1700
C	1702	1604, 1608-1613, 1637-1700
D	1604	1601
Q	1601	
L	——	
IC	1702	1602-1700
F	1602	

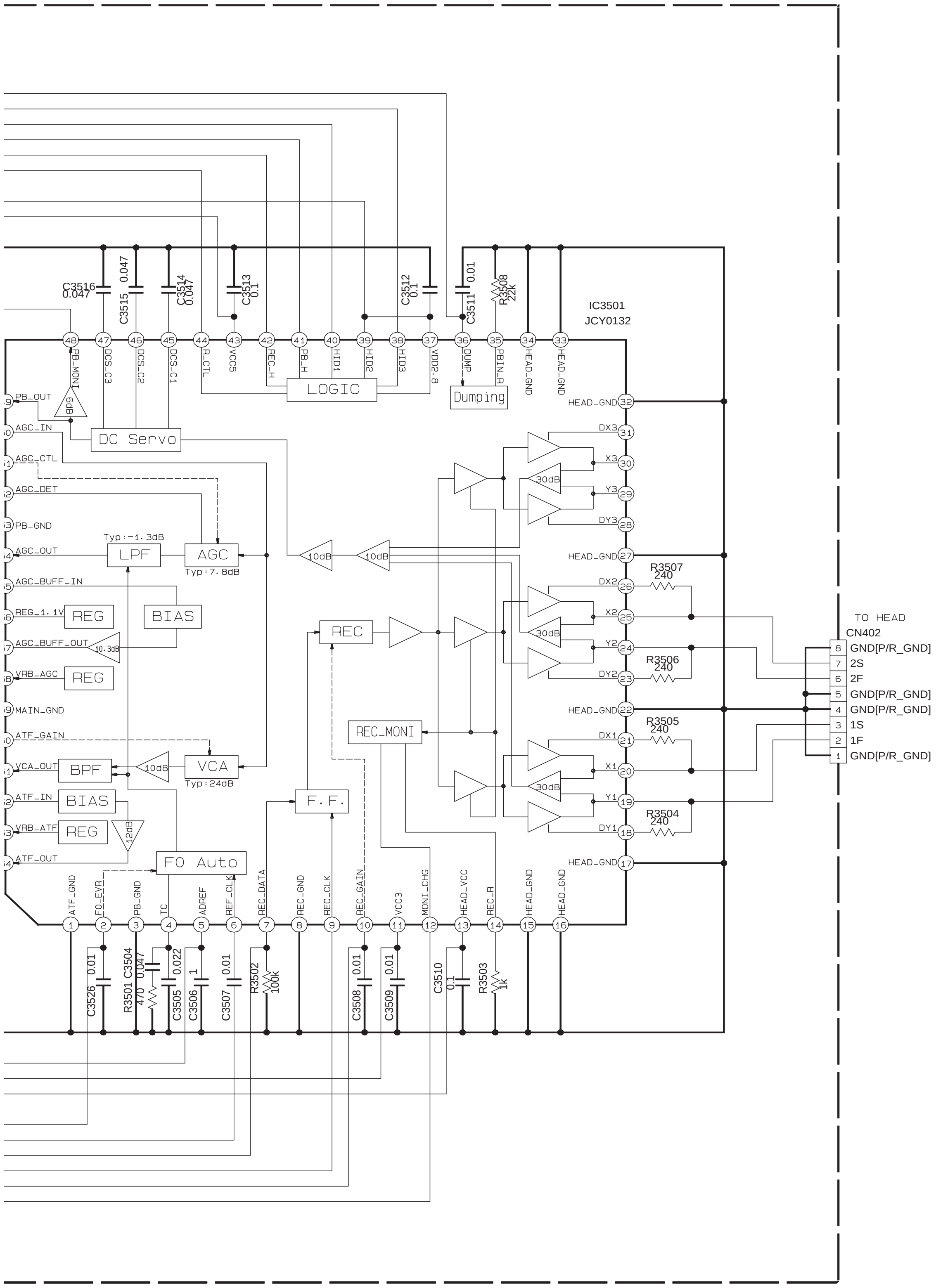
■ PREMDA(PRE/REC) SCHEMATIC DIAGRAM


0 5 PREMDA(PRE/REC)
TO CN401 [SERVO]
HID3
HID1
PBH
RECH
MONI_CHG
TL3501
TO CN401 [JIG]
ENV_OUT
ATFI
TO CN401 [EVR]
DUMP_CT L
ATF_GAI N
NOSIG_LV
RECCADJ
TO CN401 [DVMAIN]
REC_CTL
VREF_1.1
AGC_OUT
VRB_AGC
VRB_ATF
ATFI
REF_CLK
REC_DATA
REC_CLK
TO CN401 [REG]
REG_4.8V
REG_3.1V
REG_2.5V
P/R_GND
R3509 *
R3510 *
C3527 220p CH
C3517 0.01
C3518 0.01
C3519 0.001
C3520 0.01
C3521 0.1
C3522 4.7
C3523 0.01
C3524 0.01
C3525 4.7
49 PB_C
50 AGC_
51 AGC_
52 AGC_
53 PB_G
54 AGC_
55 AGC_
56 REG_
57 AGC_
58 VRB_
59 MAIN
60 ATF_
61 VCA_
62 ATF_
63 VRB_
64 ATF_
R3512OPEN
R3511 100
IC3502 SN74AHC1G04K-X
C3530 OPEN
C3528 0.01
NQR0006-001X L3501
L3502 10μ
L3503 NQR0006-001X
L3504 NQR0006-001X
L3505 NQR0006-001X
C3501 10/6.3
C3502 10/6.3
C3503 10/6.3

NOTE : The parts with marked (∗) is not used.

NOTES:UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN μF.

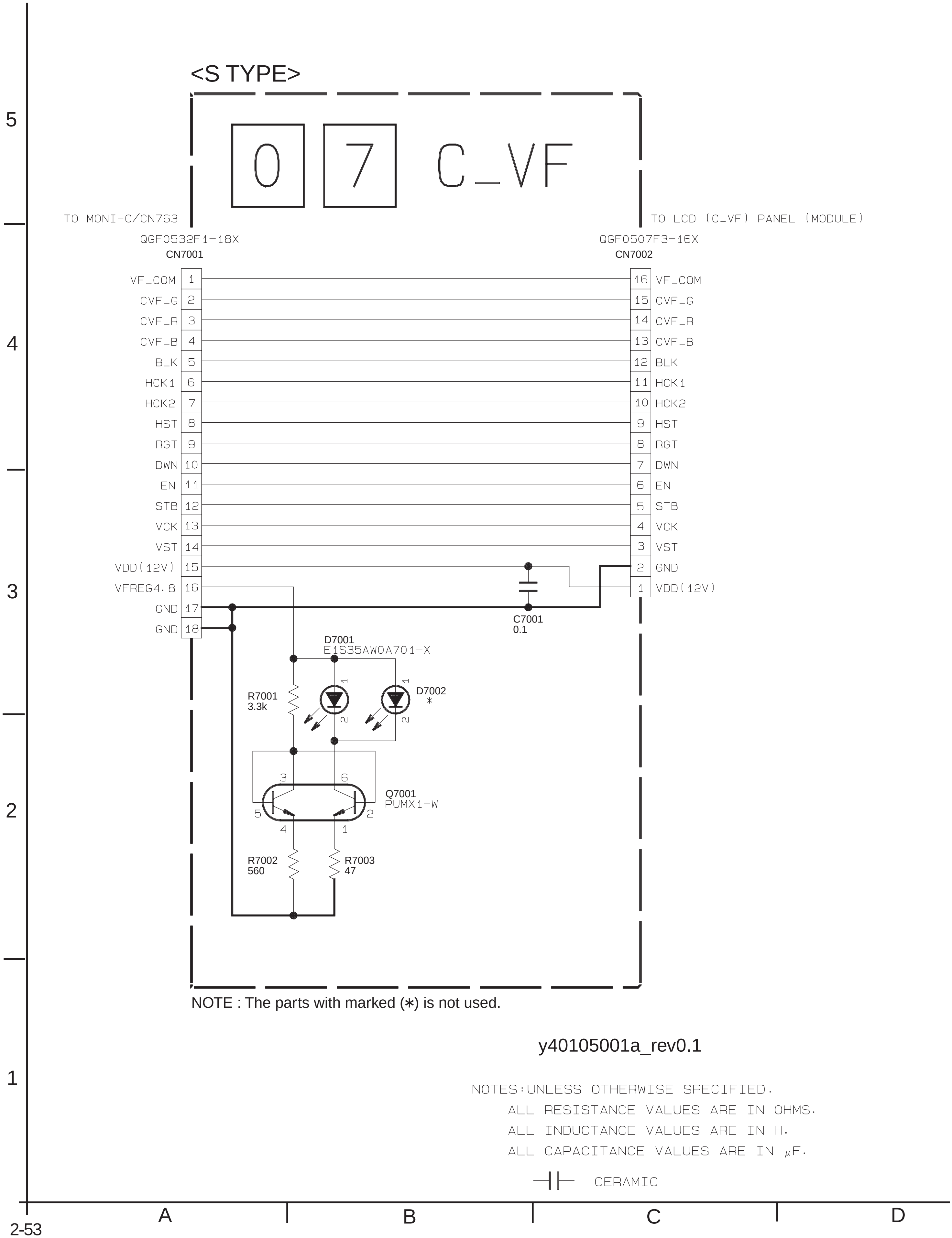
ELECTROLYTIC
CERAMIC
MY MYLER
N NON POLAR


IC3501
JCY0132
C3516 0.047
C3515 0.047
C3514 0.047
C3513 0.1
C3512 0.1
C3511 0.01
R3508 22k
PB_MONI
DCS_C3
DCS_C2
DCS_C1
R_CTL
VCC5
REC_H
PB_H
HID1
HID2
HID3
VDD2.8
DUMP
PBIN_R
HEAD_GND
LOGIC
Dumping
6dB
PB_OUT
AGC_IN
AGC_CTL
AGC_DET
PB_GND
AGC_OUT
AGC_BUFF_IN
REG_1.1V
AGC_BUFF_OUT
VRB_AGC
MAIN_GND
ATF_GAIN
VCA_OUT
ATF_IN
VRB_ATF
ATF_OUT
DC Servo
Typ:-1.3dB
LPF
AGC
Typ:7.8dB
REG
BIAS
10.3dB
10dB
VCA
Typ:24dB
BPF
12dB
FO Auto
REC
F.F.
REC_MONI
30dB
DX3
X3
Y3
DY3
DX2
X2
Y2
DY2
DX1
X1
Y1
DY1
R3507 240
R3506 240
R3505 240
R3504 240
TO HEAD
CN402
GND[P/R_GND]
2S
2F
1S
1F
ATF_GND
FO_EVR
PB_GND
TC
ADREF
REF_CLK
REC_DATA
REC_GND
REC_CLK
REC_GAIN
VCC3
MONI_CHG
HEAD_VCC
REC_R
C3526 0.01
R3501 470
C3504 0.047
C3505 0.022
C3506 1
C3507 0.01
R3502 100k
C3508 0.01
C3509 0.01
C3510 0.1
R3503 1k

y20290001a_rev0.1

LAST NO		VACANT NO
R		
C		
D		
Q		
L		

■ C-VF SCHEMATIC DIAGRAM



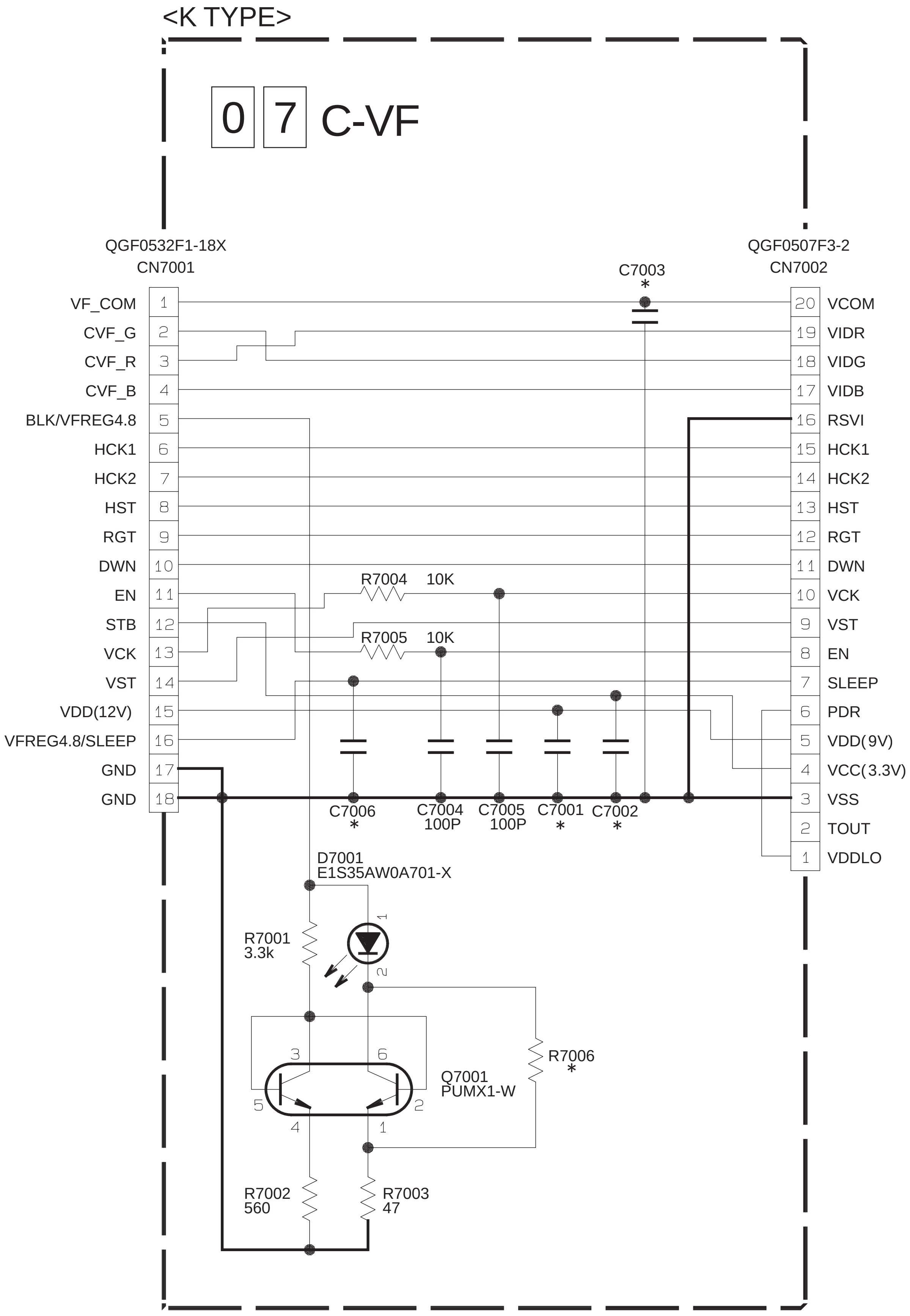
<S TYPE>
07 C_VF
TO MONI-C/CN763
QGF0532F1-18X
CN7001
TO LCD (C_VF) PANEL (MODULE)
QGF0507F3-16X
CN7002
VF_COM 1 — 16 VF_COM
CVF_G 2 — 15 CVF_G
CVF_R 3 — 14 CVF_R
CVF_B 4 — 13 CVF_B
BLK 5 — 12 BLK
HCK1 6 — 11 HCK1
HCK2 7 — 10 HCK2
HST 8 — 9 HST
RGT 9 — 8 RGT
DWN 10 — 7 DWN
EN 11 — 6 EN
STB 12 — 5 STB
VCK 13 — 4 VCK
VST 14 — 3 VST
VDD(12V) 15 — 2 GND
VFREG4.8 16 — 1 VDD(12V)
GND 17
GND 18
C7001
0.1
D7001
E1S35AW0A701-X
D7002
*
R7001
3.3k
Q7001
PUMX1-W
R7002
560
R7003
47
5
4
3
2
1
A
B
C
D

NOTE : The parts with marked (∗) is not used.

y40105001a_rev0.1

NOTES:UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN μF.
⊣⊢ CERAMIC

■ C-VF SCHEMATIC DIAGRAM


<K TYPE>
0 7 C-VF
QGF0532F1-18X
CN7001
VF_COM 1
CVF_G 2
CVF_R 3
CVF_B 4
BLK/VFREG4.8 5
HCK1 6
HCK2 7
HST 8
RGT 9
DWN 10
EN 11
STB 12
VCK 13
VST 14
VDD(12V) 15
VFREG4.8/SLEEP 16
GND 17
GND 18
QGF0507F3-2
CN7002
20 VCOM
19 VIDR
18 VIDG
17 VIDB
16 RSVI
15 HCK1
14 HCK2
13 HST
12 RGT
11 DWN
10 VCK
9 VST
8 EN
7 SLEEP
6 PDR
5 VDD(9V)
4 VCC(3.3V)
3 VSS
2 TOUT
1 VDDLO
C7003 *
R7004 10K
R7005 10K
C7006 *
C7004 100P
C7005 100P
C7001 *
C7002 *
D7001
E1S35AW0A701-X
R7001
3.3k
R7006 *
Q7001
PUMX1-W
R7002
560
R7003
47

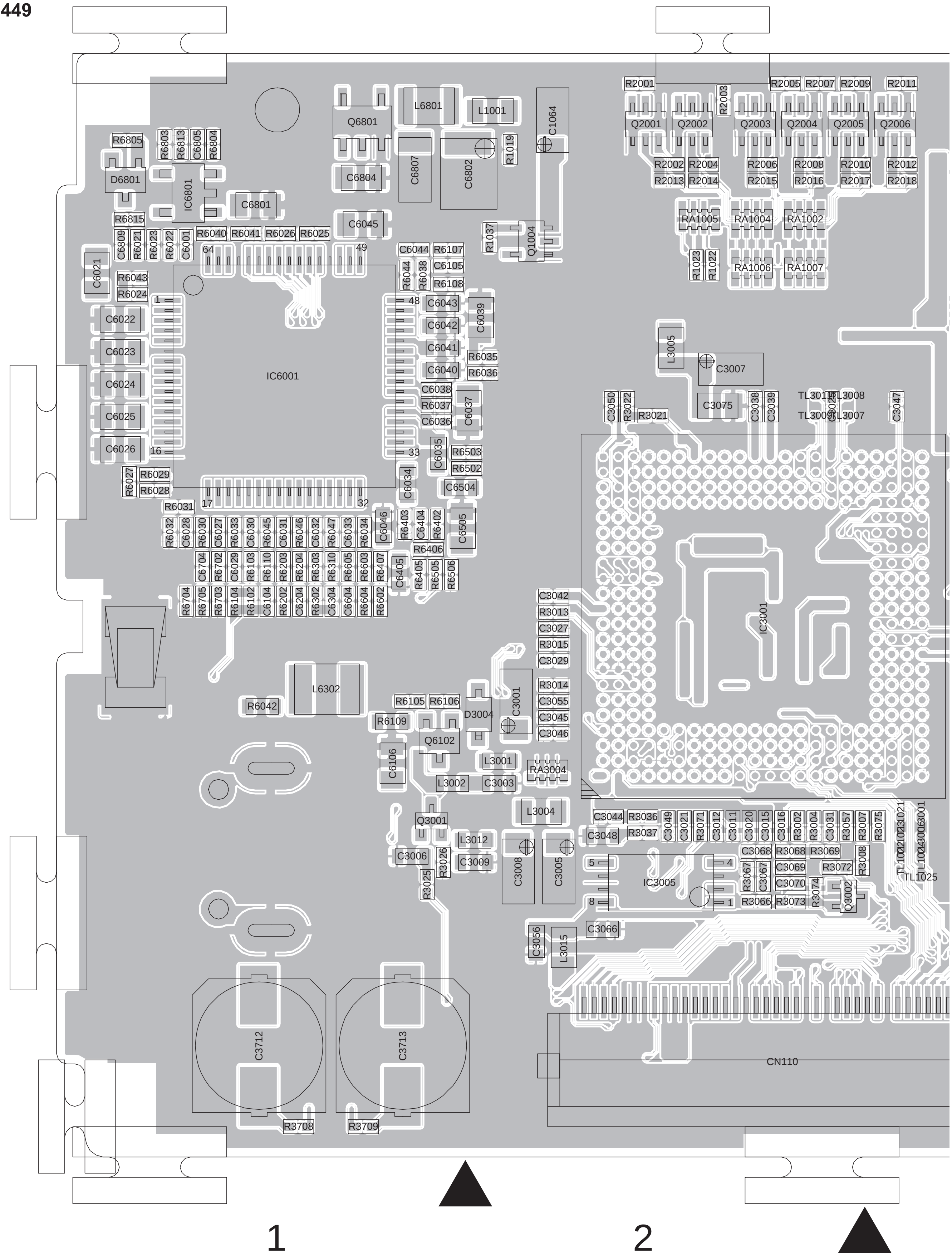
NOTE : The parts with marked (∗) is not used.

y40121001a_rev0.1

■ MAIN CIRCUIT BOARD (GR-D33)

<01> MAIN
YB10449

FOIL SIDE(B)



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C6021
R6043
R6024
Q6801
L6801
L1001
C1064
R1019
C6804
C6807
C6802
C6801
C6045
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Q1004
R6040
R6041
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R6025
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C6105
R6108
R6044
R6038
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C6042
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R6037
C6036
C6037
C6022
C6023
C6024
C6025
C6026
IC6001
16
33
C6035
R6503
R6502
C6504
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R6027
R6029
R6028
17
32
R6031
R6032
C6028
R6030
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C6030
R6045
C6031
R6046
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R6034
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R6506
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R6604
R6602
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R6042
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R6106
R6109
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L3001
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L3004
Q3001
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C3006
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C3713
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R3709
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R2003
R2005
R2007
R2009
R2011
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Q2002
Q2003
Q2004
Q2005
Q2006
R2002
R2004
R2006
R2008
R2010
R2012
R2013
R2014
R2015
R2016
R2017
R2018
RA1005
RA1004
RA1002
R1023
R1022
RA1006
RA1007
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C3007
C3075
C3050
R3022
R3021
C3038
C3039
TL3010
TL3008
TL3009
TL3007
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C3027
R3015
C3029
R3014
C3055
C3045
C3046
C3044
R3036
C3048
R3037
C3049
C3021
R3071
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C3011
C3020
C3015
C3016
R3002
R3004
C3031
R3057
R3007
R3075
C3068
R3068
R3069
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4
IC3005
8
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C3069
R3072
R3008
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L3003
CN110
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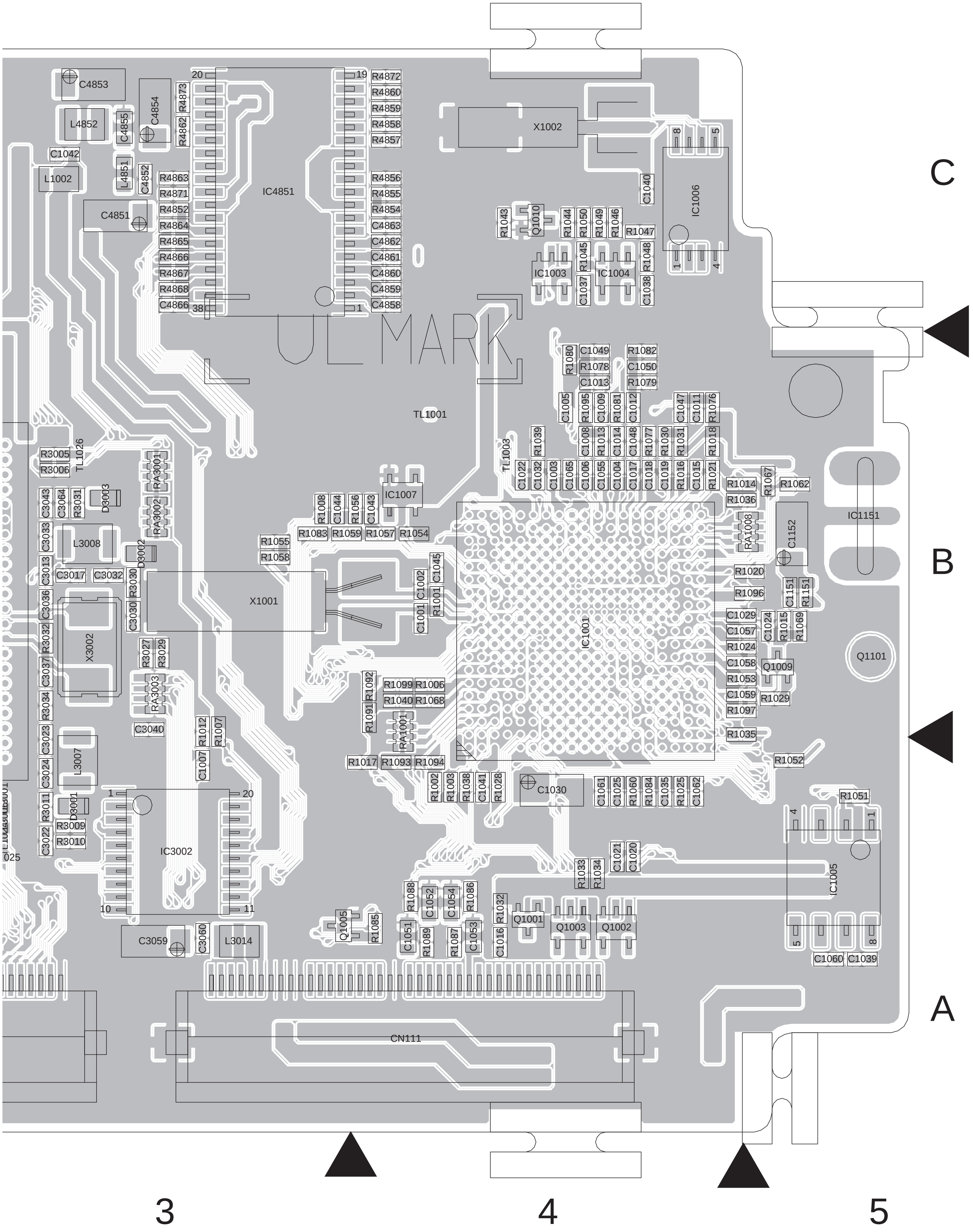
2

NOTE : A location guides are described in page 2-59.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R4865
R4866
R4867
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R4855
R4854
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C4862
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C4860
C4859
C4858
UL MARK
X1002
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4
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C1047
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TL1003
R1039
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C1014
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R1086
R1032
Q1001
Q1003
Q1002
Q1005
R1085
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R1089
R1087
C1053
C1016
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RA3002
C3033
L3008
D3002
C3013
C3017
C3032
R3030
C3036
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C3037
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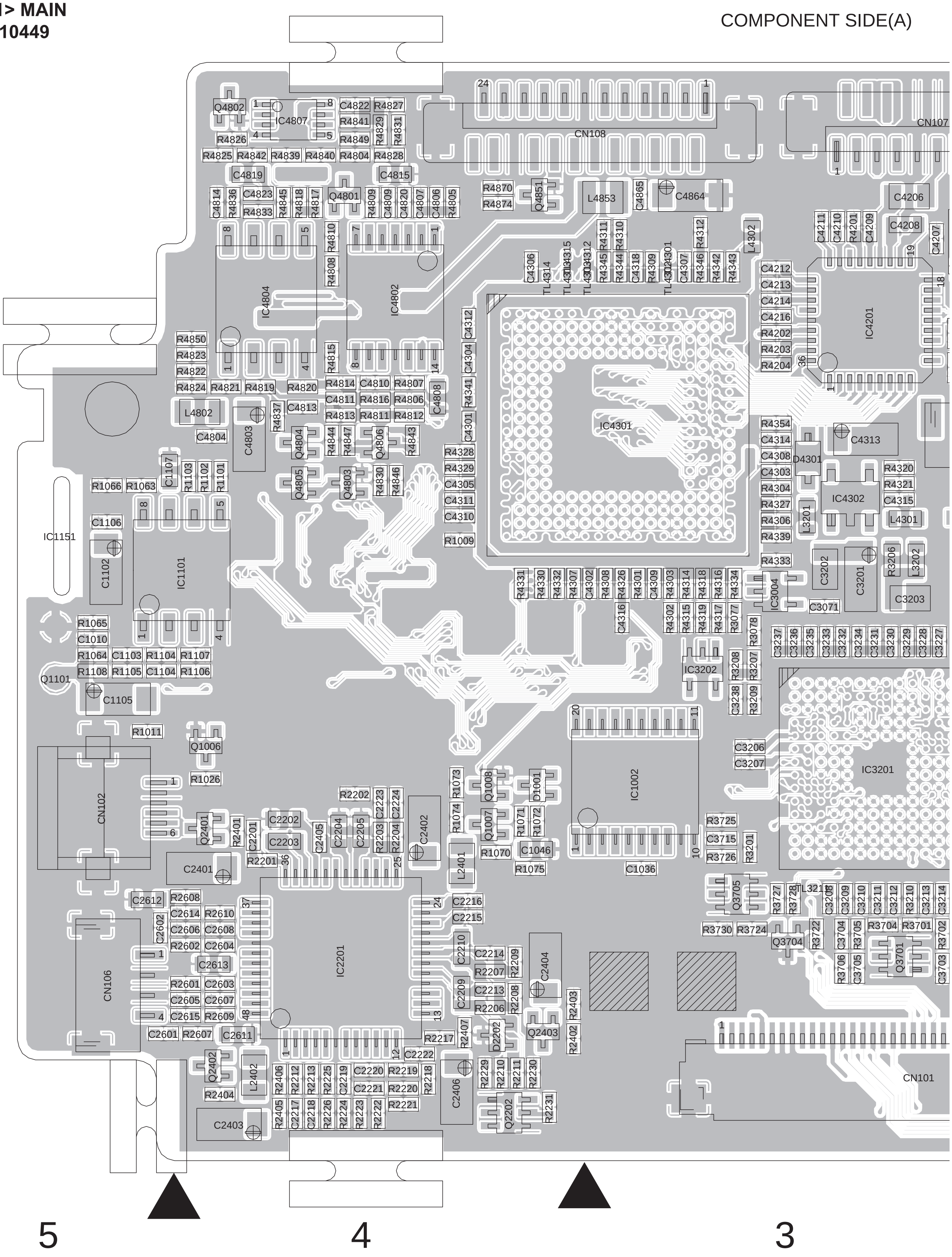
R1007
C3023
L3007
C3024
C1007
R3011
D3001
1
20
R3009
C3022
R3010
IC3002
025
10
11
C3059
C3060
L3014
CN111
C
B
A
3
4
5

■ MAIN CIRCUIT BOARD (GR-D33)

<01> MAIN
YB10449

COMPONENT SIDE(A)



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R4840
R4804
R4828
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C4815
C4814
R4836
C4823
R4845
R4818
R4817
Q4801
R4809
C4809
C4820
C4807
C4806
R4805
R4833
CN108
24
1
CN107
R4870
R4874
Q4851
L4853
C4865
C4864
C4206
C4208
C4211
C4210
R4201
C4209
C4207
R4810
R4808
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IC4802
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TL4315
TL4312
R4345
R4311
R4344
R4310
C4318
R4309
TL4301
C4307
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R4312
R4342
R4343
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C4213
C4214
C4216
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R4203
R4204
IC4201
R4850
R4823
R4822
R4824
R4821
R4819
R4820
R4815
R4814
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R4807
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R4816
R4806
R4813
R4811
R4812
C4312
C4304
R4341
C4808
C4301
L4802
C4813
R4837
C4804
C4803
Q4804
R4844
R4847
Q4806
R4843
IC4301
R4354
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C4308
C4303
C4304
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R4306
R4339
R4333
D4301
C4313
R4320
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C4315
IC4302
L4301
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R4328
R4329
C4305
C4311
C4310
R1009
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Q4803
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R4846
R1066
R1063
C1107
R1103
R1102
R1101
C1106
IC1151
IC1101
C1102
R4331
R4330
R4332
R4307
C4302
R4308
R4326
R4301
C4309
R4303
R4314
R4318
R4316
R4334
C4316
R4302
R4315
R4319
R4317
R3077
R3078
IC3004
C3071
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C3201
R3206
L3202
C3203
R1065
C1010
R1064
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R1107
R1108
R1105
C1104
R1106
Q1101
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R3208
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C3231
C3230
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C3228
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CN102
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C2204
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C2224
R2203
R2204
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R1074
L2401
Q1008
Q1007
R1071
R1072
D1001
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R1075
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C3207
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C2612
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R2609
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R2607
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R2208
R2206
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R2402
Q2403
R2407
D2202
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R3730
R3724
R3727
R3728
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R3722
Q3704
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C3209
C3210
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C3212
R3210
C3213
C3214
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R3705
R3704
R3701
R3702
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C3703
Q2402
L2402
R2404
R2406
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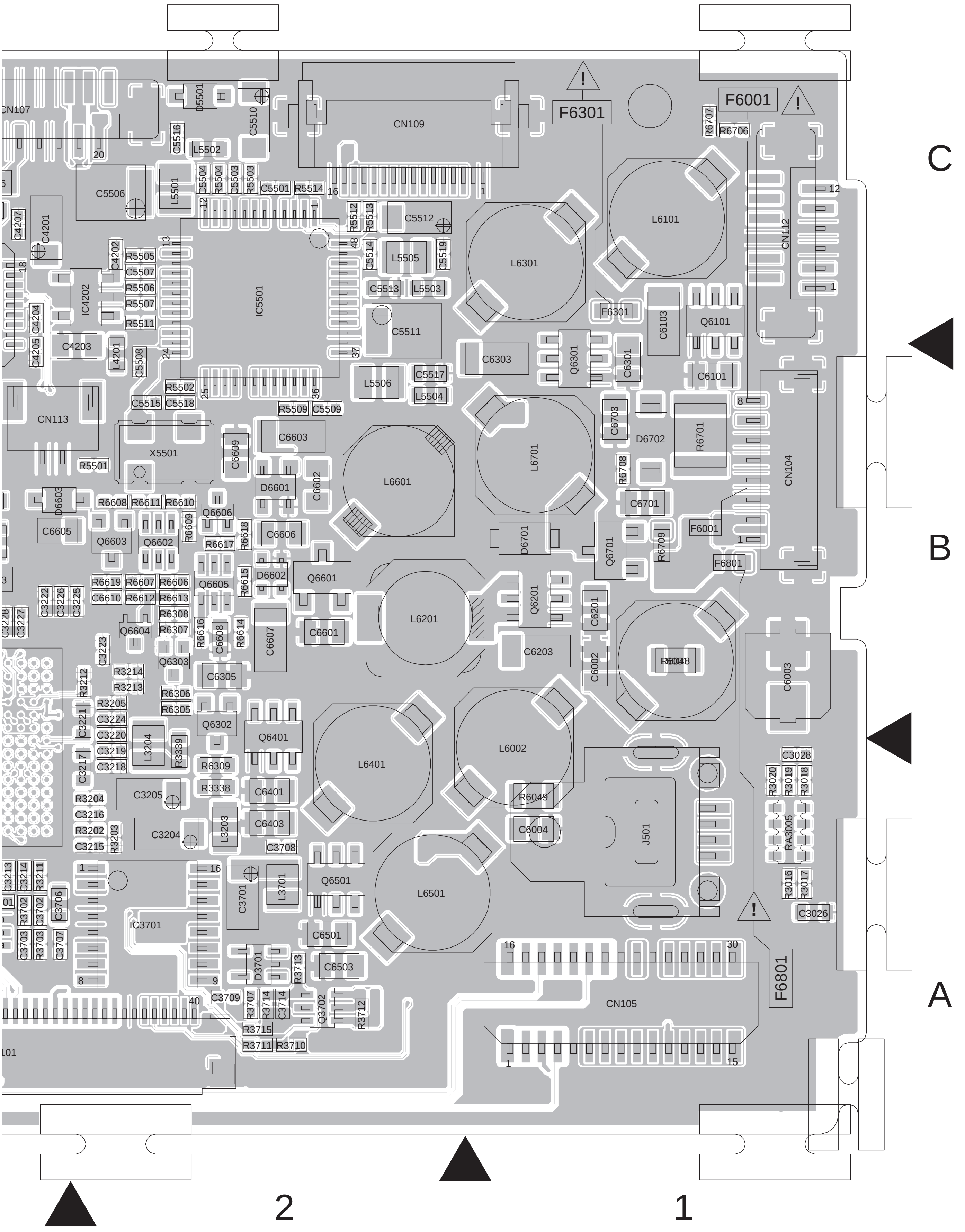
R2219
R2218
C2221
R2220
R2221
C2406
R2229
R2210
R2211
R2230
Q2202
R2231
C2403
R2405
C2217
C2218
R2226
R2224
R2223
R2222
CN101
5
4
3

NOTE : A location guides are described in page 2-59.

CAUTION :
FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH SAME TYPE AND RATED FUSE(S).
ATTENTION :
POUR UNE PROTECTION PERMANENTE CONTRE LES RISQUE D'INCENDE,
REMPLACER LES FUSIBLES PAR UNAAUTRE DE MEME TYPE ET DE MEME TENSION.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IC3701
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L6701
L6601
L6201
L6002
L6401
L6501
L5501
L5502
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R6709
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R3017
R3018
R3019
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R3712
R3713
R3714
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F6001
F6801
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8
9
12
13
16
20
24
25
30
36
37
40
48
15
C
B
A
2
1

COMPONENT PARTS LOCATION GUIDE <MAIN> YB10449

REF.NO.	LOCATION
CAPACITER	
C1001	B C 4B
C1002	B C 4B
C1003	B C 4B
C1004	B C 4B
C1005	B C 4B
C1006	B C 4B
C1007	B C 3A
C1008	B C 4B
C1009	B C 4B
C1010	A C 5B
C1011	B C 4B
C1012	B C 4B
C1013	B C 4B
C1014	B C 4B
C1015	B C 4B
C1016	B C 4A
C1017	B C 4B
C1018	B C 4B
C1019	B C 4B
C1020	B C 4A
C1021	B C 4A
C1022	B C 4B
C1024	B C 5B
C1025	B C 4A
C1029	B C 4B
C1030	B C 4A
C1032	B C 4B
C1035	B C 4A
C1036	A C 3A
C1037	B C 4C
C1038	B C 4C
C1039	B C 5A
C1040	B C 4C
C1041	B C 4A
C1042	B C 3C
C1043	B C 4B
C1044	B C 3B
C1045	B C 4B
C1046	A C 4A
C1047	B C 4B
C1048	B C 4B
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C1054	B C 4A
C1055	B C 4B
C1057	B C 4B
C1058	B C 4B
C1059	B C 4B
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C1061	B C 4A
C1062	B C 4A
C1064	B C 2C
C1065	B C 4B
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C1103	A C 5B
C1104	A C 5B
C1105	A C 5B
C1106	A C 5B
C1107	A C 5B
C1151	B C 5B
C1152	B C 5B
C2201	A C 4A
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C4212	A C 3C
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C4302	A C 3B
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C4316	A C 3B
C4318	A C 3C
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C4804	A C 4B
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CN104	A C 1B
CN105	A C 1A
CN106	A C 5A
CN107	A C 3C
CN108	A C 3C
CN109	A C 2C
CN110	B C 2A
CN111	B C 4A
CN112	A C 1C
CN113	A C 3B
DIODE	
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D3001	B C 3A
D3002	B C 3B
D3003	B C 3B
D3004	B C 2B
D3701	A C 2A
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D6601	A C 2B
D6602	A C 2B
D6603	A C 3B
D6701	A C 1B
D6702	A C 1B
D6801	B C 1C
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F6801	A C 1B
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IC3001	B C 2B
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IC4807	A C 4C
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IC5501	A C 2C
IC6001	B C 1B
IC6801	B C 1C
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L3002	B C 1A
L3004	B C 2A
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RA1001	B C 4B
RA1002	B C 2C
RA1004	B C 2C
RA1005	B C 2C
RA1006	B C 2C
RA1007	B C 2C
RA1008	B C 5B
RA3001	B C 3B
RA3002	B C 3B
RA3003	B C 3B
RA3004	B C 2A
RA3005	A C 1A
TEST POINT	
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TL1003	B C 4B
TL1021	B C 3A
TL1022	B C 3A
TL1023	B C 3A
TL1024	B C 3A
TL1025	B C 3A
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TL3006	B C 3A
TL3007	B C 2B
TL3008	B C 2B
TL3009	B C 2B
TL3011	B C 2B
TL3211	A C 3A
TL4301	A C 3C
TL4302	A C 3C
TL4303	A C 4C
TL4312	A C 4C
TL4313	A C 4C
TL4314	A C 4C
TL4315	A C 4C
OTHER	
J501	A C 1A
TM4	A C 5C
TM8	A C 5C
TP110	B C 1B
X1001	B C 3B
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■ MAIN CIRCUIT BOARD (GR-D73)

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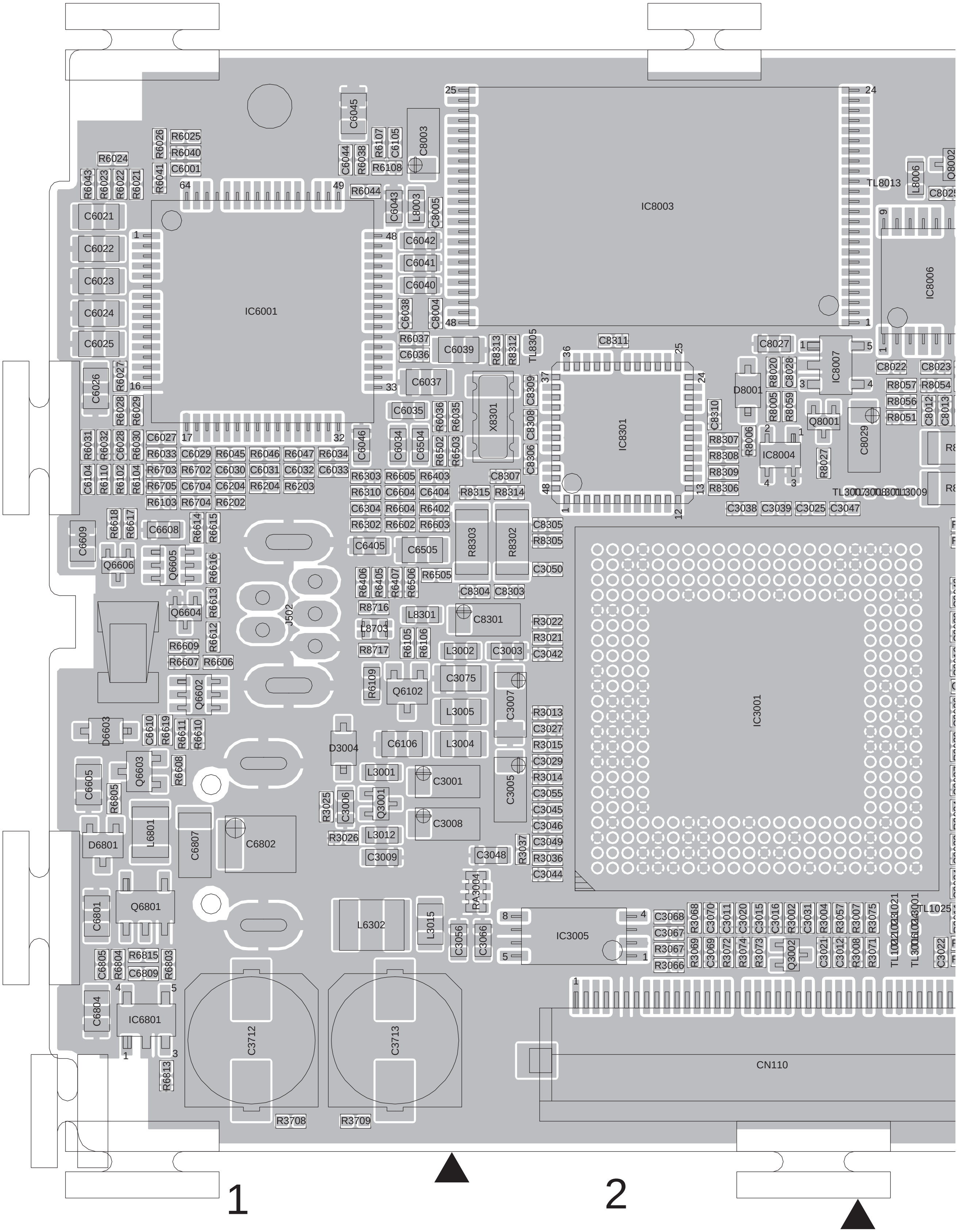

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R6044
C6043
L8003
C8005
R6025
R6040
C6001
R6026
R6041
R6024
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R6023
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R6021
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R6704
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R6605
R6403
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C6604
C6404
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Q6605
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R6607
R6606
Q6602
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Q3001
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4
5
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R6815
R6803
C6809
4
5
C6804
IC6801
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R3709
CN110
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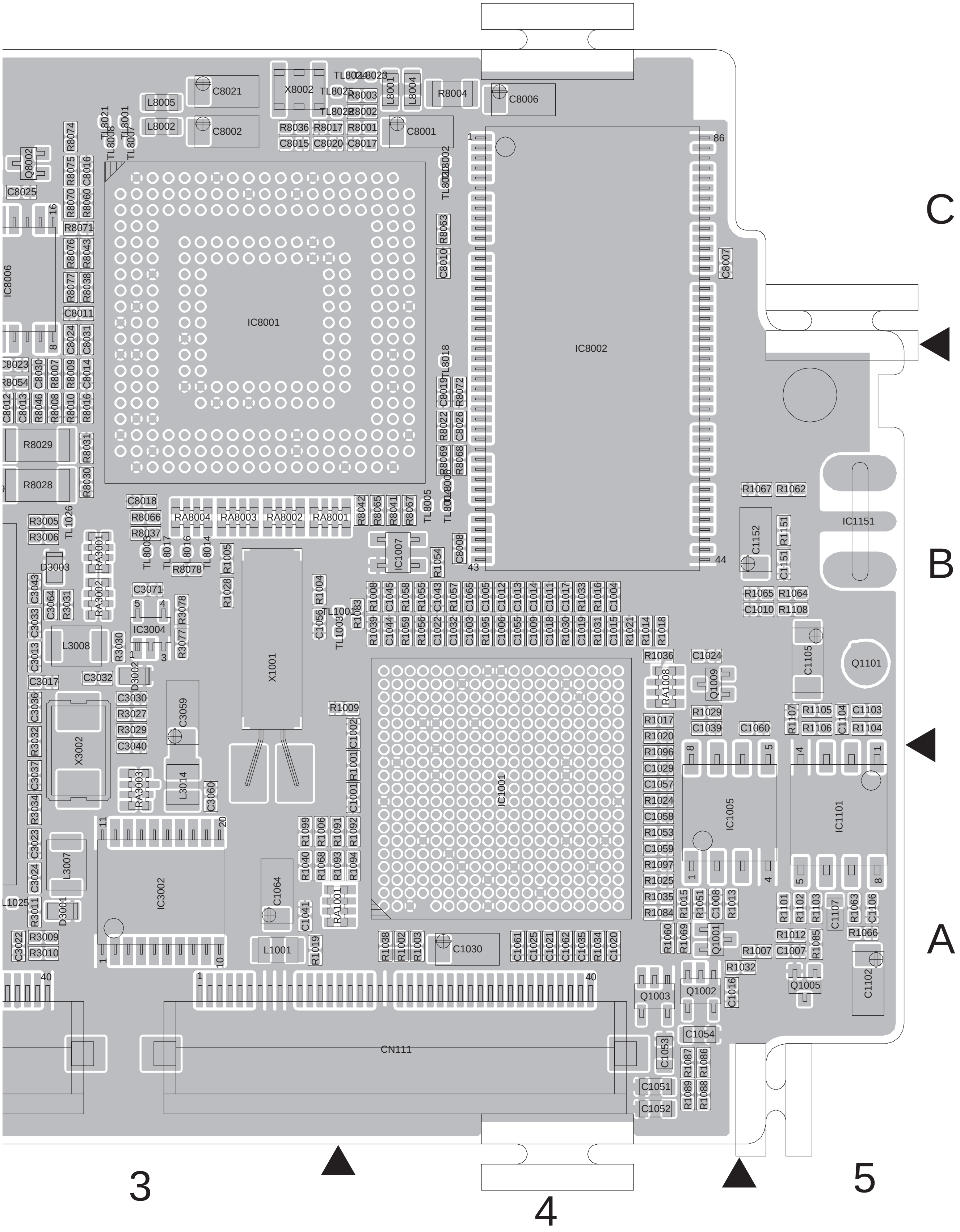
1
2

NOTE : A location guides are described in page 2-67.



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B
A
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4
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IC1005
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IC1007
IC3002
IC3004
X8002
X1001
X3002
CN111
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Q1001
Q1002
Q1003
Q1005
Q1009
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C8018
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C8019
C8026
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L8004
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RA8003
RA8002
RA8001
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TL8001
TL8008
TL8007
TL8024
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TL8006
TL8003
TL8017
TL8016
TL8014
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TL1003
TL1003
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D3003
RA3001
RA3002
RA3003
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C1017
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R1014
R1018
R1054
R1067
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R1151
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R1064
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RA1008
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R1029
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R1035
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R1015
R1051
C1008
R1013
R1101
R1102
R1103
C1107
R1063
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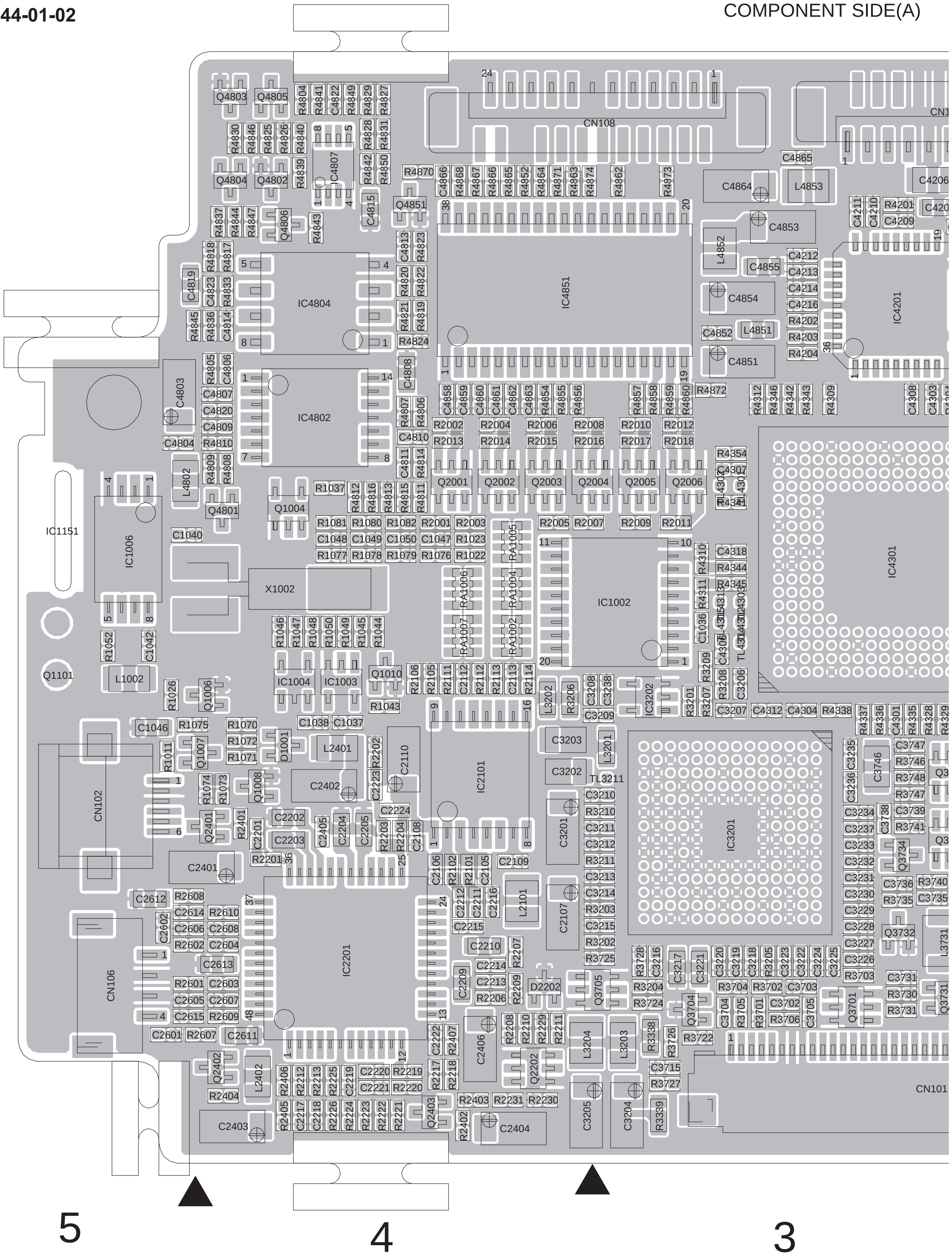
R1001
C1001
R1099
R1006
R1091
R1092
R1040
R1068
R1093
R1094
C1064
C1041
RA1001
L1001
R1019
R1038
R1002
R1003
C1030
C1061
C1025
C1021
C1062
C1035
R1034
C1020
R1060
R1069
R1012
R1085
R1066
R1007
C1007
R1032
C1016
C1102
C1054
C1053
R1087
R1086
C1051
R1089
R1088
C1052
1
86
43
44
16
8
5
4
1
3
11
20
1
10
40
1
40
8
5
4
1
1
4
5
8

■ MAIN CIRCUIT BOARD (GR-D73)

<01> MAIN
YB10444-01-02

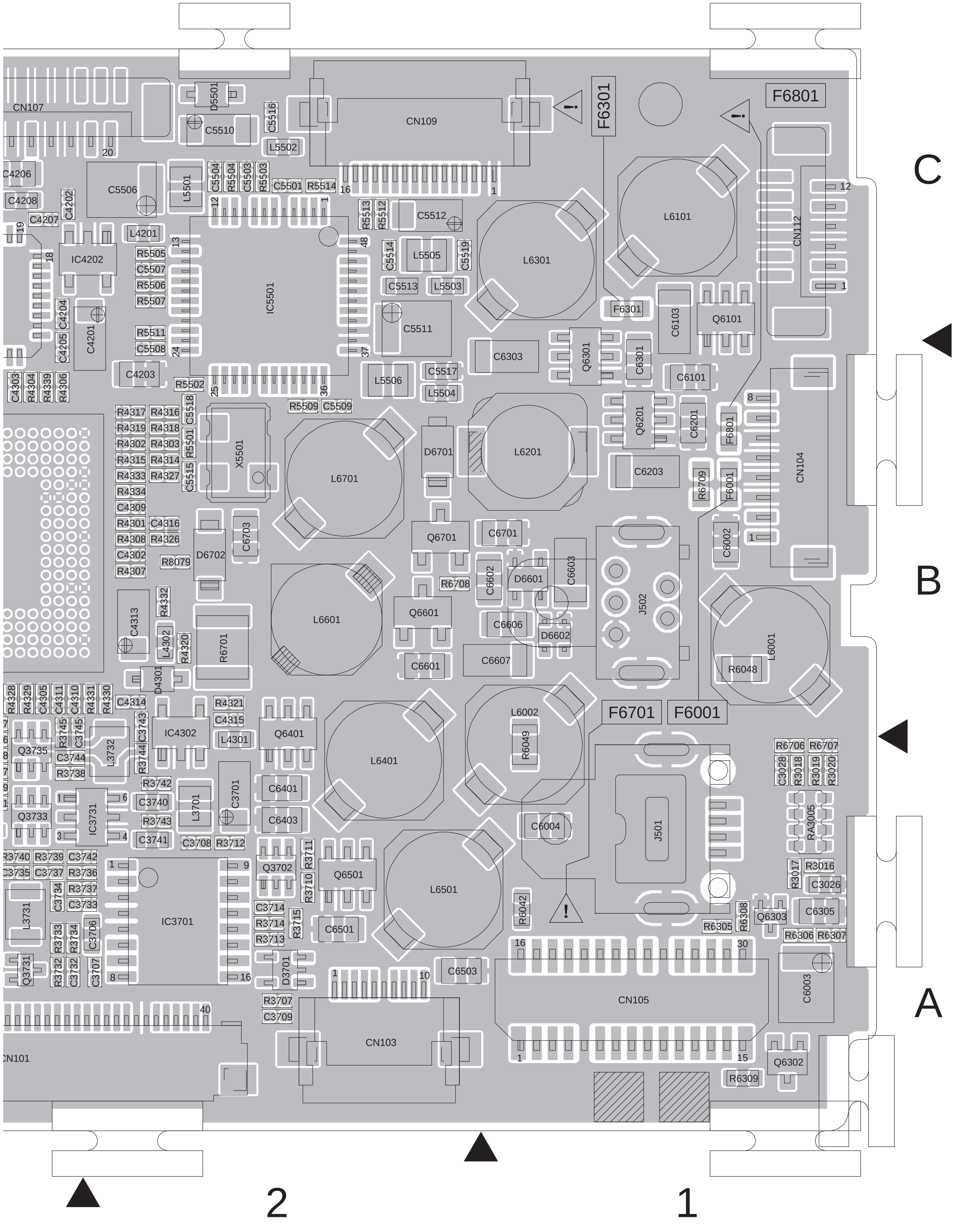
COMPONENT SIDE(A)



CN108
IC4804
IC4802
IC4851
IC4201
IC4301
IC1151
IC1006
X1002
IC1002
IC1004
IC1003
IC2101
IC3202
IC3201
CN102
CN106
IC2201
CN101
L4852
L4853
L2401
L2101
L3204
L3203
L2402
5
4
3

NOTE : A location guides are described in page 2-67.

CAUTION :
FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH SAME TYPE AND RATED FUSE(S).
ATTENTION :
POUR UNE PROTECTION PERMANENTE CONTRE LES RISQUE D'INCENDE,
REMPLACER LES FUSIBLES PAR UNAAUTRE DE MEME TYPE ET DE MEME TENSION.



C
B
A
2
1
CN107
20
D5501
C5510
C5516
L5502
CN109
F6301
F6801
C4206
C4208
C4207
C4202
C5506
L5501
C5504
R5504
C5503
R5503
C5501
R5514
16
1
12
L6101
CN112
R5513
R5512
C5512
L4201
IC4202
R5505
C5507
R5506
R5507
13
48
C5514
L5505
C5519
L6301
IC5501
C5513
L5503
C4204
C4201
C4205
R5511
C5508
24
37
C5511
F6301
C6103
Q6101
C6303
Q6301
C6301
C4203
R5502
25
36
L5506
C5517
L5504
C6101
C4303
R4304
R4339
R4306
R4317
R4316
C5518
R5509
C5509
8
R4319
R4318
R4302
R4303
R5501
X5501
L6701
D6701
L6201
Q6201
C6201
F6801
CN104
R4315
R4314
R4333
R4327
C5515
C6203
R6709
F6001
R4334
C4309
R4301
C4316
R4308
R4326
C4302
R8079
R4307
D6702
C6703
Q6701
C6701
C6002
L6601
R6708
C6602
D6601
C6603
J502
Q6601
C4313
R4332
L4302
R4320
R6701
C6606
D6602
L6001
R6048
D4301
C6601
C6607
R4328
R4329
C4305
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C4310
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R4330
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R4321
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F6001
IC4302
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Q6401
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L3732
C3743
R3744
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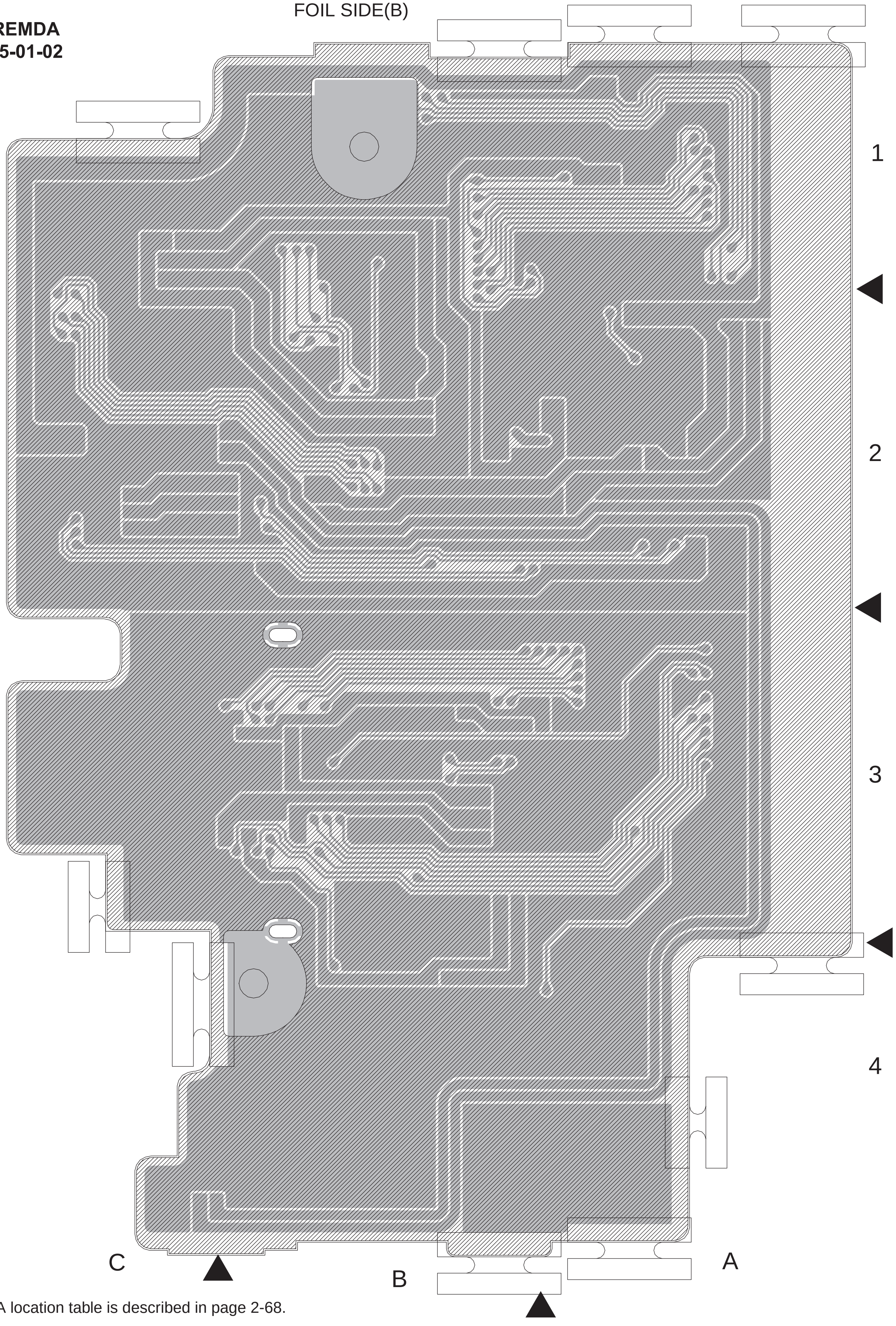
R3738
R6049
L6401
R6706
R6707
C3028
R3018
R3019
R3020
R3742
C3740
R3743
C3741
IC3731
Q3733
L3701
C3701
C6401
C6403
C6004
J501
RA3005
C3708
R3712
R3740
R3739
C3742
C3735
C3737
R3736
C3734
R3737
C3733
9
Q3702
R3711
Q6501
R3710
L6501
R3017
R3016
C3026
L3731
IC3701
C3714
R3714
R3713
C3715
C6501
R6042
R6308
Q6303
C6305
R6305
R6306
R6307
Q3731
R3733
R3734
C3706
R3732
C3732
C3707
D3701
10
C6503
30
CN105
C6003
40
R3707
C3709
CN103
CN101
15
Q6302
R6309

■ PREMDA CIRCUIT BOARD

<05> PREMDA
YB10445-01-02


FOIL SIDE(B)
1
2
3
4
A
B
C

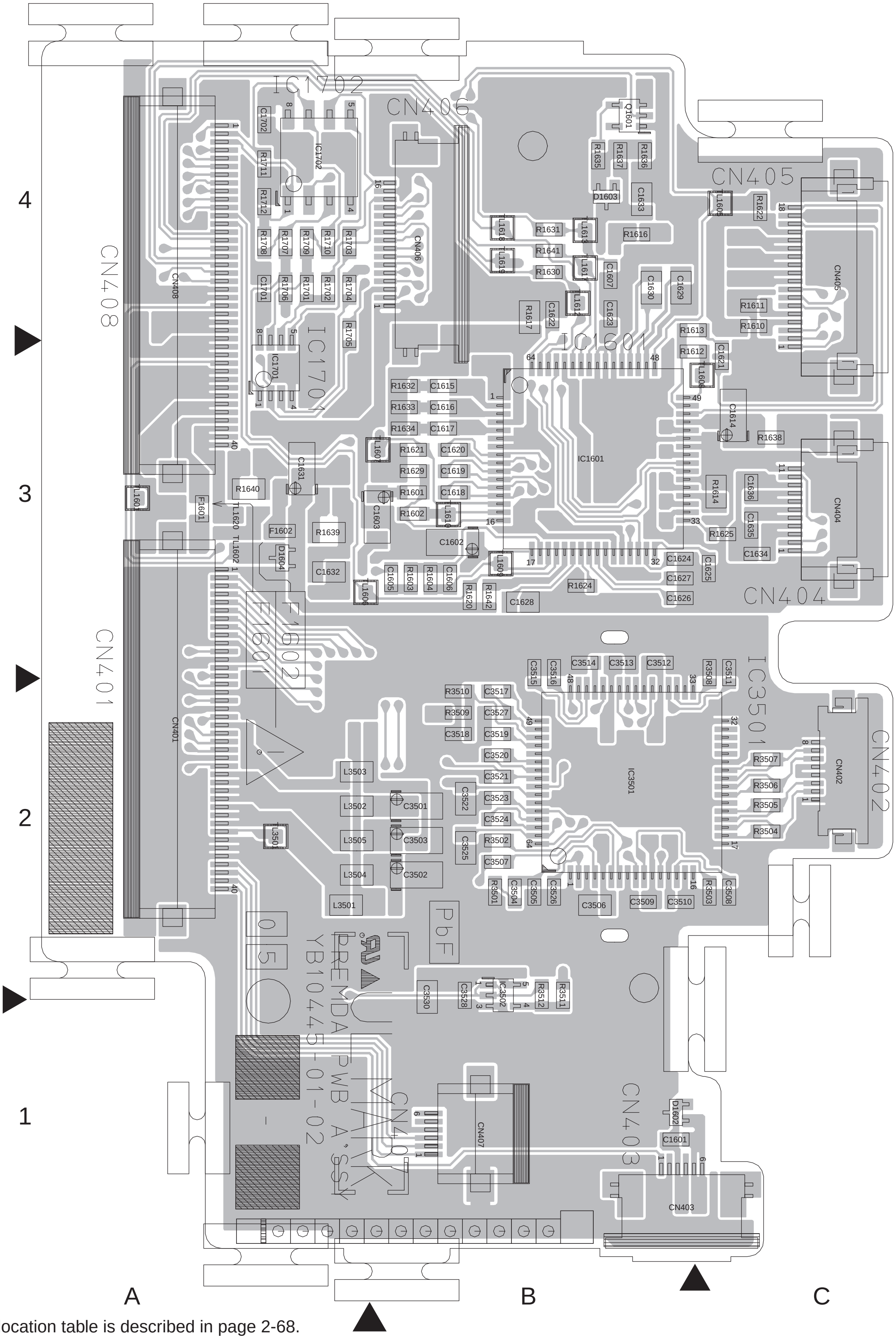
NOTE : A location table is described in page 2-68.

■ PREMDA CIRCUIT BOARD

<05> PREMDA
YB10445-01-02

CAUTION :
FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH SAME TYPE AND RATED FUSE(S).
ATTENTION :
POUR UNE PROTECTION PERMANENTE CONTRE LES RISQUE D'INCENDE,
REMPLACER LES FUSIBLES PAR UNAAUTRE DE MEME TYPE ET DE MEME TENSION.

COMPONENT SIDE(A)



4
3
2
1
A
B
C
CN408
CN401
CN406
CN405
CN404
CN402
CN403
CN407
IC1702
IC1701
IC1601
IC3501
IC3502
F1601
F1602
PREMDA PWB A'SSY
YB10445-01-02
PbF

NOTE : A location table is described in page 2-68.

COMPONENT PARTS LOCATION GUIDE <MAIN> YB10444-01-02

REF.NO.	LOCATION
CAPACITOR	
C1001	B C 4A
C1002	B C 4B
C1003	B C 4B
C1004	B C 4B
C1005	B C 4B
C1006	B C 4B
C1007	B C 5A
C1008	B C 4A
C1009	B C 4B
C1010	B C 5B
C1011	B C 4B
C1012	B C 4B
C1013	B C 4B
C1014	B C 4B
C1015	B C 4B
C1016	B C 4A
C1017	B C 4B
C1018	B C 4B
C1019	B C 4B
C1020	B C 4A
C1021	B C 4A
C1022	B C 4B
C1024	B C 4B
C1025	B C 4A
C1029	B C 4A
C1030	B C 4A
C1032	B C 4B
C1035	B C 4A
C1036	A C 3B
C1037	A C 4B
C1038	A C 4B
C1039	B C 4B
C1040	A C 5B
C1041	B C 3A
C1042	A C 5B
C1043	B C 4B
C1044	B C 4B
C1045	B C 4B
C1046	A C 5B
C1047	A C 4B
C1048	A C 4B
C1049	A C 4B
C1050	A C 4B
C1051	B C 4A
C1052	B C 4A
C1053	B C 4A
C1054	B C 4A
C1055	B C 4B
C1056	B C 3B
C1057	B C 4A
C1058	B C 4A
C1059	B C 4A
C1060	B C 5B
C1061	B C 4A
C1062	B C 4A
C1064	B C 3A
C1065	B C 4B
C1102	B C 5A
C1103	B C 5B
C1104	B C 5B
C1105	B C 5B
C1106	B C 5A
C1107	B C 5A
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C1152	B C 5B
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C2106	A C 4A
C2107	A C 4A
C2108	A C 4A
C2109	A C 4A
C2110	A C 4A
C2112	A C 4B
C2113	A C 4B
C2201	A C 4A
C2202	A C 4A
C2203	A C 4A
C2204	A C 4A
C2205	A C 4A
C2209	A C 4A
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C2212	A C 4A
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C2217	A C 4A
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C2221	A C 4A
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C2404	A C 4A
C2405	A C 4A
C2406	A C 4A
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C2605	A C 4A
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C2612	A C 5A
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C2614	A C 4A
C2615	A C 4A
C2616	A C 4A
C2617	A C 5A
C2618	A C 5A
C2619	A C 5A
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C3003	B C 2B
C3005	B C 2A
C3006	B C 1A
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C3009	B C 1A
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C4804	A C 5B
C4806	A C 4B
C4807	A C 4B
C4808	A C 4B
C4809	A C 4B
C4810	A C 4B
C4811	A C 4B
C4813	A C 4C
C4814	A C 4C
C4815	A C 4C
C4819	A C 4C
C4820	A C 4B
C4822	A C 4C
C4823	A C 4C
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C4853	A C 3C
C4854	A C 3C
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C5516	A C 2C
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C6003	A C 1A
C6004	A C 1A
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C6034	B C 1B
C6035	B C 1B
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C6042	B C 1C
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C6101	A C 1B
C6103	A C 1C
C6104	B C 1B
C6105	B C 1C
C6106	B C 1B
C6201	A C 1B
C6203	A C 1B
C6204	B C 1B
C6301	A C 1B
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C8006	B C 4C
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CN103	A C 2A
CN104	A C 1B
CN105	A C 1A
CN106	A C 5A
CN107	A C 3C
CN108	A C 3C
CN109	A C 2C
CN110	B C 2A
CN111	B C 4A
CN112	A C 1C
DIODE	
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D3002	B C 3B
D3003	B C 3B
D3004	B C 1A
D3701	A C 2A
D4301	A C 2B
D5501	A C 2C
D6601	A C 1B
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D6603	B C 1B
D6701	A C 2B
D6702	A C 2B
D6801	B C 1A
D8001	B C 2B
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F6301	A C 1C
F6801	A C 1B
IC	
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IC1004	A C 4B
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IC3001	B C 2B
IC3002	B C 3A
IC3004	B C 3B
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IC3731	A C 2A
IC4201	A C 3C
IC4202	A C 2C
IC4301	A C 3B
IC4302	A C 2B
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IC4807	A C 4C
IC4851	A C 4C
IC5501	A C 2C
IC6001	B C 1C
IC6801	B C 1A
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IC8003	B C 2C
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IC8007	B C 2B
IC8301	B C 2B
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L2401	A C 4B
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L3002	B C 2B
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TL8018	B
TL8020	B
TL8021	B
TL8022	B
TL8023	B
TL8024	B
TL8025	B
TL8305	B
OTHER	
J501	A
J502	A
TM4	A
TM8	A
TP110	B
X1001	B
X1002	A
X3002	B
X5501	A
X8002	B
X8301	B

REF.NO.	LOCATION
TL4313	A C 3B
TL4314	A C 3B
TL4315	A C 3B
TL8001	B C 3C
TL8002	B C 4C
TL8003	B C 3B
TL8004	B C 4B
TL8005	B C 4B
TL8006	B C 4B
TL8007	B C 3C
TL8008	B C 3C
TL8013	B C 3C
TL8014	B C 3B
TL8016	B C 3B
TL8017	B C 3B
TL8018	B C 4B
TL8020	B C 4C
TL8021	B C 3C
TL8022	B C 4C
TL8023	B C 4C
TL8024	B C 4C
TL8025	B C 4C
TL8305	B C 2B
OTHER	
J501	A C 1A
J502	A D 1B
TM4	A C 5C
TM8	A C 5C
TP110	B C 1B
X1001	B C 3B
X1002	A C 4B
X3002	B C 3A
X5501	A C 2B
X8002	B C 3C
X8301	B C 2B

<PREMDA> YB10445-01-02

REF.NO.	LOCATION
CAPACITOR	
C1601	A C 1B
C1602	A C 3B
C1603	A C 3B
C1605	A C 3B
C1606	A C 3B
C1607	A C 4B
C1614	A C 3C
C1615	A C 3B
C1616	A C 3B
C1617	A C 3B
C1618	A C 3B
C1619	A C 3B
C1620	A C 3B
C1621	A C 3C
C1622	A C 4B
C1623	A C 4B
C1624	A C 3B
C1625	A C 3C
C1626	A C 3B
C1627	A C 3B
C1628	A C 3B
C1629	A C 4B
C1630	A C 4B
C1631	A C 3A
C1632	A C 3A
C1633	A C 4B
C1634	A C 3C
C1635	A C 3C
C1636	A C 3C
C1701	A C 4A
C1702	A C 4A
C3501	A C 2B
C3502	A C 2B
C3503	A C 2B
C3504	A C 2B
C3505	A C 2B
C3506	A C 2B
C3507	A C 2B
C3508	A C 2C
C3509	A C 2B
C3510	A C 2B
C3511	A C 3C
C3512	A C 3B
C3513	A C 3B
C3514	A C 3B
C3515	A C 3B
C3516	A C 3B
C3517	A C 2B
C3518	A C 2B
C3519	A C 2B
C3520	A C 2B
C3521	A C 2B
C3522	A C 2B
C3523	A C 2B
C3524	A C 2B
C3525	A C 2B
C3526	A C 2B
C3527	A C 2B
C3528	A C 2B
C3530	A C 2B
CONNECTOR	
CN401	A C 2A
CN402	A C 2C
CN403	A C 1B
CN404	A C 3C
CN405	A C 4C
CN406	A C 4B
CN407	A C 1B
CN408	A C 4A
DIODE	
D1602	A C 1B
D1603	A C 4B
D1604	A C 3A
FUSE	
F1601	A C 3A
F1602	A C 3A
IC	
IC1601	A C 3B
IC1701	A C 3A
IC1702	A C 4A
IC3501	A C 2B
IC3502	A C 2B
COIL	
L3501	A C 2A
L3502	A C 2A
L3503	A C 2A
L3504	A C 2A
L3505	A C 2A
TRANSISTOR	
Q1601	A C 4B
RESISTOR	
R1601	A C 3B
R1602	A C 3B
R1603	A C 3B
R1604	A C 3B
R1610	A C 4C
R1611	A C 4C
R1612	A C 3B
R1613	A C 4B
R1614	A C 3C
R1616	A C 4B
R1617	A C 4B
R1620	A C 3B
R1621	A C 3B
R1622	A C 4C
R1624	A C 3B
R1625	A C 3C
R1629	A C 3B
R1630	A C 4B
R1631	A C 4B
R1632	A C 3B
R1633	A C 3B
R1634	A C 3B
R1635	A C 4B
R1636	A C 4B
R1637	A C 4B
R1638	A C 3C
R1639	A C 3A
R1640	A C 3A
R1641	A C 4B
R1642	A C 3B
R1701	A C 4A
R1702	A C 4A
R1703	A C 4A
R1704	A C 4A
R1705	A C 4A
R1706	A C 4A
R1707	A C 4A
R1708	A C 4A
R1709	A C 4A
R1710	A C 4A
R1711	A C 4A
R1712	A C 4A
R3501	A C 2B
R3502	A C 2B
R3503	A C 2C
R3504	A C 2C
R3505	A C 2C
R3506	A C 2C
R3507	A C 2C
R3508	A C 3C
R3509	A C 2B
R3510	A C 2B
R3511	A C 2B
R3512	A C 2B
OTHER	
TL1601	A C 3A
TL1602	A C 3A
TL1605	A C 4C
TL1606	A C 3A
TL1607	A C 3B
TL1608	A C 3C
TL1609	A C 3B
TL1610	A C 3B
TL1612	A C 4B
TL1613	A C 4B
TL1617	A C 4B
TL1618	A C 4B
TL1619	A C 4B
TL1620	A C 3A
TL3501	A C 2A

<MONI-C> YB10447-01-01

REF.NO.	LOCATION
CAPACITOR	
C1	B C 3C
C10	B C 2A
C11	B C 3A
C7601	B C 2B
C7602	B C 2B
C7603	B C 2B
C7604	B C 2B
C7605	B C 2B
C7606	B C 2B
C7607	B C 2C
C7608	B C 2B
C7609	B C 2B
C7610	B C 2B
C7611	B C 2B
C7612	B C 2B
C7613	B C 2B
C7614	B C 2B
C7615	B C 2B
C7616	B C 2B
C7617	B C 2B
C7618	B C 3B
C7619	B C 3A
C7620	B C 2B
C7621	B C 2A
C7622	B C 2B
C7623	B C 2C
C7624	B C 2C
C7625	B C 2B
C7626	B C 2C
C7627	B C 2C
C7628	B C 3C
C7629	B C 3B
C7630	B C 3B
C7631	B C 3B
C7632	B C 3B
C7633	B C 3B
C7634	B C 4B
C7635	B C 3B
C7637	B C 3B
C7638	B C 2B
C7639	B C 2B
C7641	B C 4A
C7642	B C 1B
C7645	B C 3C
C7652	B C 4B
C7653	B C 3B
C7654	B C 3B
C7655	B C 2B
CONNECTOR	
CN761	B C 2A
CN762	B C 1A
CN763	B C 1C
CN765	B C 3B
CN766	A C 2B
DIODE	
D10	B C 1A
D11	B C 1A
D7602	B C 3C
D7603	B C 4A
D7604	B C 1B
IC	
IC7601	B C 2B
IC7602	B C 2C
IC7604	B C 1B
IC7606	B C 3B
COIL	
L10	B C 2A
L7601	B C 2C
L7602	B C 3B
L7603	B C 3B
L7604	B C 3B
L7605	B C 3B
L7606	B C 3A
L7607	B C 4A
TRANSISTOR	
Q10	B C 1A
Q7601	B C 3C
Q7602	B C 3B
Q7603	B C 3B
Q7604	B C 3C
Q7607	B C 2C
Q7608	B C 4B
Q7609	B C 4B
Q7610	B C 4B
RESISTOR	
R3	A C 3C
R4	A C 3C
R5	A C 3C
R6	A C 3C
R7	A C 3C
R8	B C 3C
R9	B C 3C
R18	B C 2A
R19	B C 1A
R20	B C 2A
R21	B C 2A
R22	B C 2A
R23	B C 1A
R25	B C 1A
R26	B C 1A
R28	B C 1A
R29	B C 1A
R30	B C 1A
R31	B C 1A
R32	B C 2A
R33	B C 3A
R34	B C 3A
R7601	B C 2B
R7602	B C 2B
R7603	B C 3C
R7604	B C 2B
R7605	B C 1B
R7606	B C 1B
R7607	B C 3A
R7608	B C 2C
R7609	B C 2C
R7610	B C 2C
R7611	B C 2C
R7612	B C 3C
R7613	B C 3C
R7614	B C 3C
R7615	B C 3C
R7616	B C 3B
R7617	B C 3B
R7618	B C 3C
R7619	B C 3B
R7620	B C 3B
R7626	B C 2B
R7627	B C 2B
R7628	B C 2C
R7629	B C 2C
R7630	B C 3B
R7631	B C 3A
R7633	B C 4A
R7634	B C 4A
R7636	B C 2B
R7637	B C 2B
R7638	B C 2B
R7639	B C 3B
R7640	B C 2B
R7641	B C 2B
R7642	B C 2C
R7643	B C 2B
R7644	B C 1C
R7645	B C 1C
R7646	B C 2C
R7647	B C 2C
R7648	B C 2C
R7652	B C 2B
R7663	B C 3C
OTHER	
J7601	A D 1B
SW2	A C 3C
SW3	A C 3C
SW4	A C 2C
SW5	A C 2C
SW6	A C 3B
SW7	A C 3B
SW8	A C 2B
SW7601	A D 4A
TM6	A C 4C
TM8	A C 4C
TP7601	B C 3A
TP7602	B C 3A
ZP1-1	B C 1B
ZP1-2	B C 1B
ZP1-3	B C 1B
ZP1-7	B C 3A
ZP1-9	B C 3B
ZP2-2	B C 1A
ZP2-4	B C 1A
ZP2-5	B C 2A
ZP2-6	B C 1A
ZP2-7	B C 2A
ZP2-8	B C 1B
ZP2-9	B C 2A
ZP3-6	B C 2C
ZP5-9	B C 2B
ZP1-10	B C 1B
ZP1-12	B C 1B
ZP1-23	B C 1B
ZP1-24	B C 3A
ZP1-33	B C 3A
ZP2-10	B C 2A
ZP3-13	B C 1B
ZP3-17	B C 1B
ZP3-18	B C 1C
ZP3-19	B C 1C
ZP3-20	B C 2B
ZP5-17	B C 3B
ZP5-18	B C 3B
ZP5-23	B C 3B
ZP5-32	B C 3C

<MONI-C> YB10453-01-01

REF.NO.	LOCATION
CAPACITOR	
C1	B C 3C
C10	B C 2A
C11	B C 3A
C7601	B C 2A
C7602	B C 2B
C7603	B C 2B
C7604	B C 2B
C7605	B C 2B
C7606	B C 2B
C7607	B C 2C
C7609	B C 2B
C7610	B C 2B
C7611	B C 2B
C7612	B C 2B
C7613	B C 2B
C7614	B C 2B
C7615	B C 2B
C7616	B C 2A
C7617	B C 2A
C7618	B C 3B
C7619	B C 3A
C7620	B C 2A
C7621	B C 2A
C7622	B C 2B
C7623	B C 2C
C7624	B C 2C
C7625	B C 2B
C7626	B C 2C
C7627	B C 2C
C7628	B C 3C
C7629	B C 3B
C7630	B C 3B
C7631	B C 3B
C7632	B C 3B
C7633	B C 3B
C7634	B C 4B
C7635	B C 3B
C7637	B C 3B
C7638	B C 2B
C7639	B C 2B
C7641	B C 4A
C7642	B C 1B
C7645	B C 3C
C7652	B C 4A
C7653	B C 3B
C7654	B C 3B
C7655	B C 2B
CONNECTOR	
CN761	B C 2A
CN762	B C 1A
CN763	B C 1C
CN765	B C 3B
CN766	A C 2B
DIODE	
D10	B C 1A
D11	B C 1A
D7602	B C 3C
D7603	B C 4A
D7604	B C 1B
IC	
IC7601	B C 2B
IC7602	B C 2C
IC7604	B C 1B
IC7606	B C 3A
COIL	
L10	B C 2A
L7601	B C 2C
L7602	B C 3A
L7603	B C 3B
L7604	B C 3B
L7605	B C 3B
L7606	B C 3A
L7607	B C 4A
TRANSISTOR	
Q10	B C 1A
Q7601	B C 3B
Q7602	B C 3B
Q7603	B C 3B
Q7604	B C 3C
Q7605	B C 2C
Q7608	B C 4B
Q7609	B C 4B
Q7610	B C 4B
RESISTOR	
R3	A C 3C
R4	A C 3C
R5	A C 3C
R6	A C 3C
R7	A C 3C
R8	B C 3C
R9	B C 3C
R18	B C 2A
R19	B C 1A
R20	B C 2A
R21	B C 2A
R22	B C 2A
R23	B C 1A
R25	B C 1A
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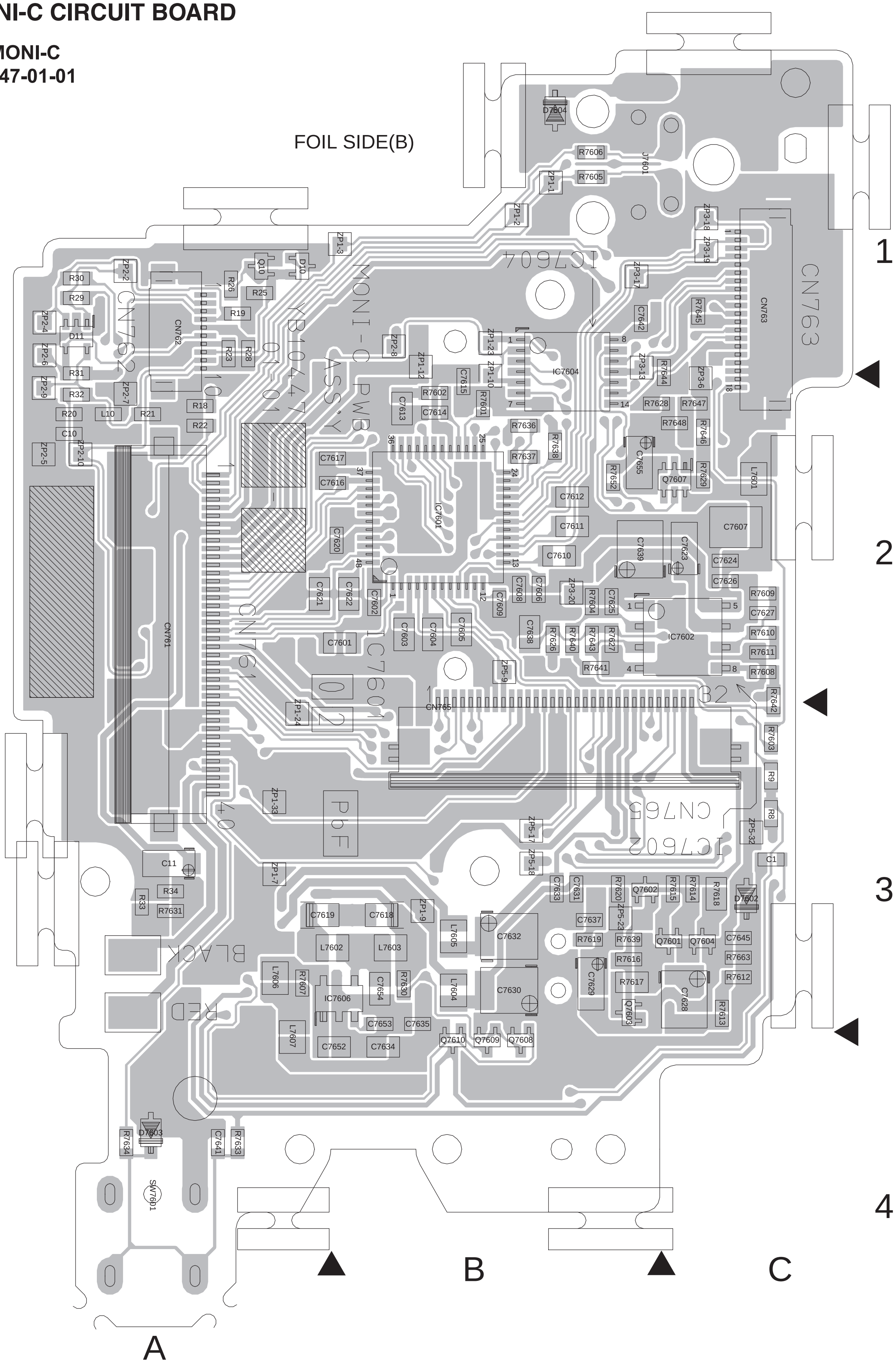
R29	B C 1A
R30	B C 1A
R31	B C 1A
R32	B C 2A
R33	B C 3A
R34	B C 3A
R7601	B C 2B
R7602	B C 2B
R7604	B C 2B
R7605	B C 1B
R7606	B C 1B
R7607	B C 3A
R7608	B C 2C
R7609	B C 2C
R7610	B C 2C
R7611	B C 2C
R7612	B C 3C
R7613	B C 3C
R7614	B C 3C
R7615	B C 3C
R7616	B C 3B
R7617	B C 3B
R7618	B C 3C
R7619	B C 3B
R7620	B C 3B
R7621	B C 1B
R7622	B C 1B
R7626	B C 2B
R7627	B C 2B
R7630	B C 3B
R7631	B C 3A
R7633	B C 4A
R7634	B C 4A
R7636	B C 2B
R7637	B C 2B
R7638	B C 2B
R7639	B C 3B
R7640	B C 2B
R7641	B C 2B
R7642	B C 3C
R7643	B C 2B
R7644	B C 1B
R7645	B C 1C
R7646	B C 2C
R7647	B C 2C
R7648	B C 2C
R7650	B C 2B
R7651	B C 2C
R7652	B C 2C
R7653	B C 2B
R7654	B C 2B
R7655	B C 2B
R7663	B C 3C
R7664	B C 2A
R7665	B C 2B
R7666	B C 2B
R7667	B C 2B
OTHER	
J7601	A D 1B
SW2	A C 3C
SW3	A C 3C
SW4	A C 2C
SW5	A C 2C
SW6	A C 3B
SW7	A C 3B
SW8	A C 2B
SW7601	A D 4A
TM6	A C 4C
TM8	A C 4C
TP7601	B C 3A
TP7602	B C 3A
ZP1-1	B C 1B
ZP1-2	B C 1B
ZP1-3	B C 1A
ZP1-7	B C 3A
ZP1-9	B C 3B
ZP2-2	B C 1A
ZP2-4	B C 1A
ZP2-5	B C 2A
ZP2-6	B C 1A
ZP2-7	B C 2A
ZP2-8	B C 1B
ZP2-9	B C 2A
ZP3-6	B C 2C
ZP5-9	B C 2B
ZP1-10	B C 1B
ZP1-12	B C 1B
ZP1-23	B C 1B
ZP1-24	B C 3A
ZP1-33	B C 3A
ZP2-10	B C 2A
ZP3-13	B C 1B
ZP3-17	B C 1B
ZP3-18	B C 1C
ZP3-19	B C 1C
ZP3-20	B C 2B
ZP5-17	B C 3B
ZP5-18	B C 3B
ZP5-23	B C 3B
ZP5-32	B C 3C

■ MONI-C CIRCUIT BOARD

<02> MONI-C
YB10447-01-01


FOIL SIDE(B)
D7604
R7606
R7605
J7601
ZP1-1
ZP1-2
ZP1-3
ZP3-18
ZP3-19
ZP3-17
IC7604
CN763
R7645
C7642
ZP3-13
R7644
ZP3-6
R7628
R7647
R7648
R7646
C7655
Q7607
R7629
R7652
L7601
C7607
ZP1-23
ZP1-10
ZP1-12
ZP2-8
C7615
R7602
C7613
C7614
R7601
R7636
R7638
R7637
C7617
C7616
C7620
IC7601
C7612
C7611
C7610
C7639
C7623
C7624
C7626
R7609
C7627
R7610
R7611
R7608
IC7602
C7621
C7622
C7602
C7603
C7604
C7605
C7601
C7608
C7606
C7609
ZP3-20
R7604
C7625
C7638
R7626
R7640
R7643
R7627
R7641
ZP5-9
CN765
R7642
R7603
R9
R8
ZP5-32
C1
ZP1-24
ZP1-33
ZP5-17
ZP5-18
ZP1-7
C7633
C7631
R7620
Q7602
R7615
R7614
R7618
D7602
ZP5-23
C7637
R7619
R7639
Q7601
Q7604
C7645
R7616
R7663
R7617
R7612
C7629
Q7603
C7628
R7613
C7619
C7618
ZP1-9
L7605
C7632
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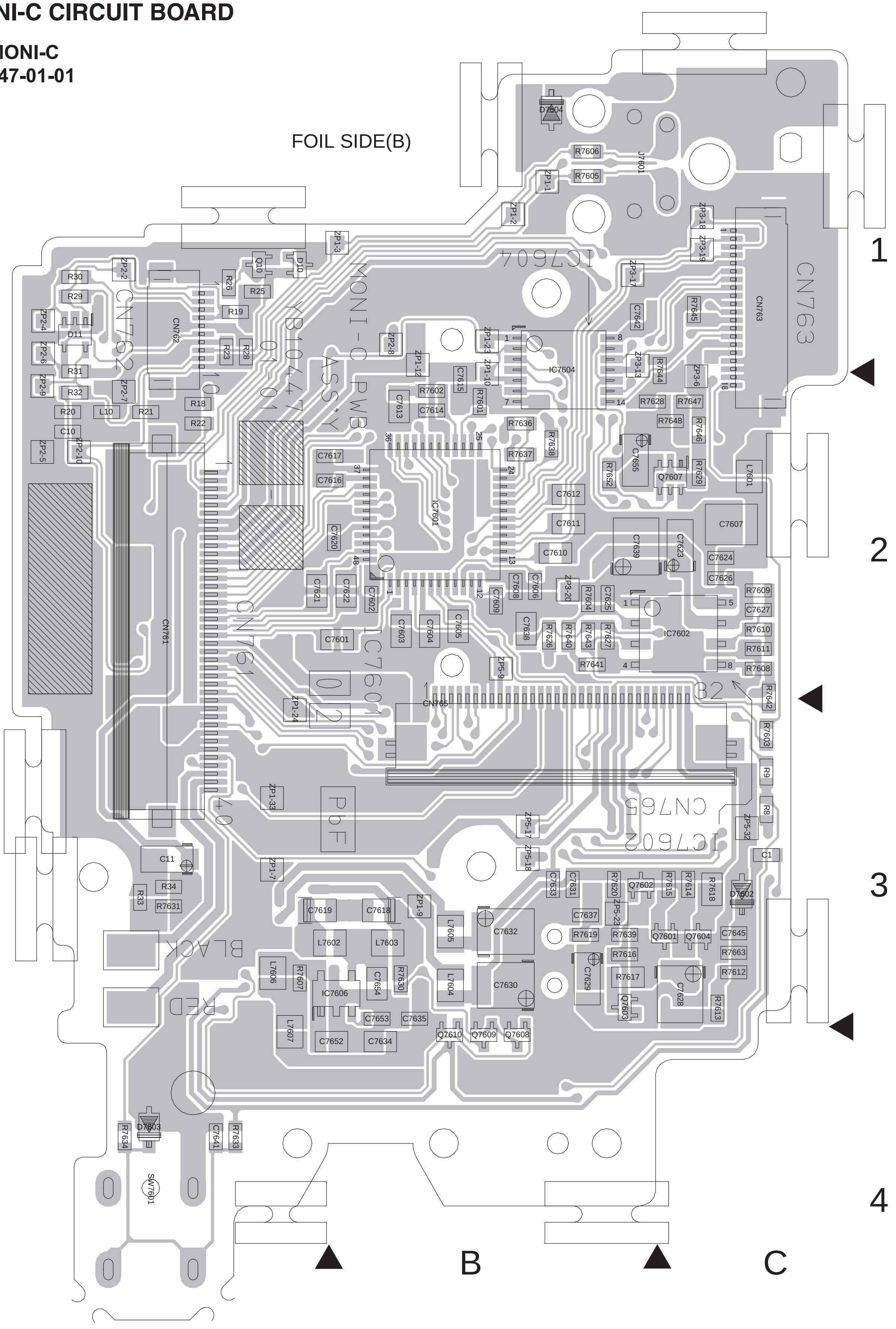
L7606
R7607
C7654
R7630
L7604
C7630
IC7606
C7653
C7635
L7607
C7652
C7634
Q7610
Q7609
Q7608
R30
R29
ZP2-2
ZP2-4
D11
ZP2-6
R31
ZP2-9
R32
ZP2-7
R20
L10
R21
C10
ZP2-5
ZP2-10
CN762
R26
Q10
D10
R25
R19
R23
R28
R18
R22
CN761
C11
R34
R33
R7631
D7603
R7634
C7641
R7633
SW7601
MONI-C PWB ASSY
YB10447 01-01
PbF
BLACK
RED
1
2
3
4
A
B
C

NOTE : A location guides are described in page 2-68.

■ MONI-C CIRCUIT BOARD

<02> MONI-C
YB10447-01-01


FOIL SIDE(B)
1
2
3
4
A
B
C
MONI-C PWB ASS'Y
YB10447 01-01
PbF
BLACK
RED
CN761
CN762
CN763
CN765
IC7601
IC7602
IC7604
IC7606
J7601
SW7601
D7602
D7603
D7604
D10
D11
Q10
Q7601
Q7602
Q7603
Q7604
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L10
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L7603
L7604
L7605
L7606
L7607
C1
C10
C11
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R8
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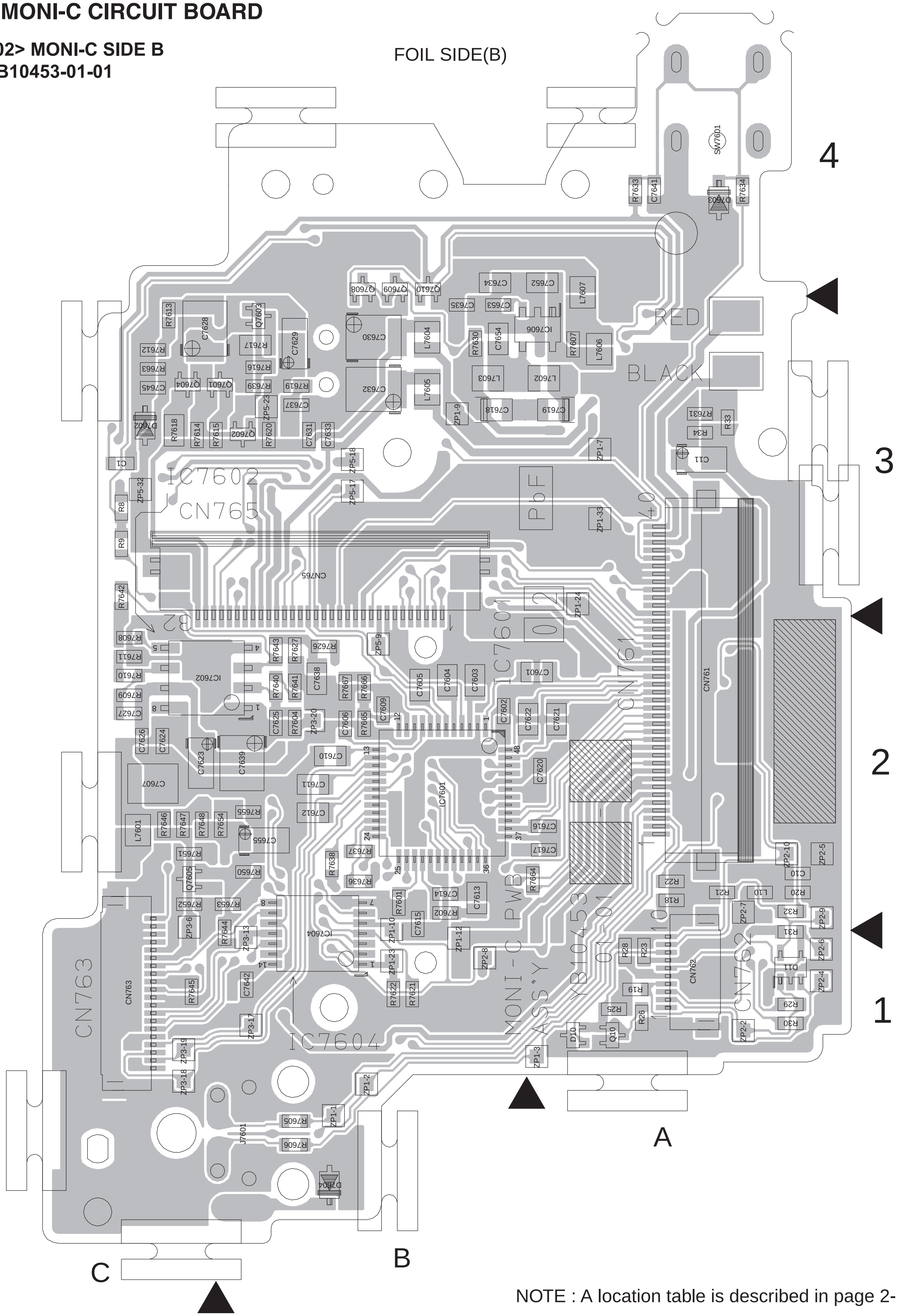
R7652
R7663
ZP1-1
ZP1-2
ZP1-3
ZP1-7
ZP1-9
ZP1-10
ZP1-12
ZP1-23
ZP1-24
ZP1-33
ZP2-2
ZP2-4
ZP2-5
ZP2-6
ZP2-7
ZP2-8
ZP2-9
ZP2-10
ZP3-6
ZP3-13
ZP3-17
ZP3-18
ZP3-19
ZP3-20
ZP5-9
ZP5-17
ZP5-18
ZP5-23
ZP5-32
1
7
8
14
12
13
24
25
36
37
48
4
5
18
40
32

NOTE : A location guides are described in page 2-68.

■ MONI-C CIRCUIT BOARD

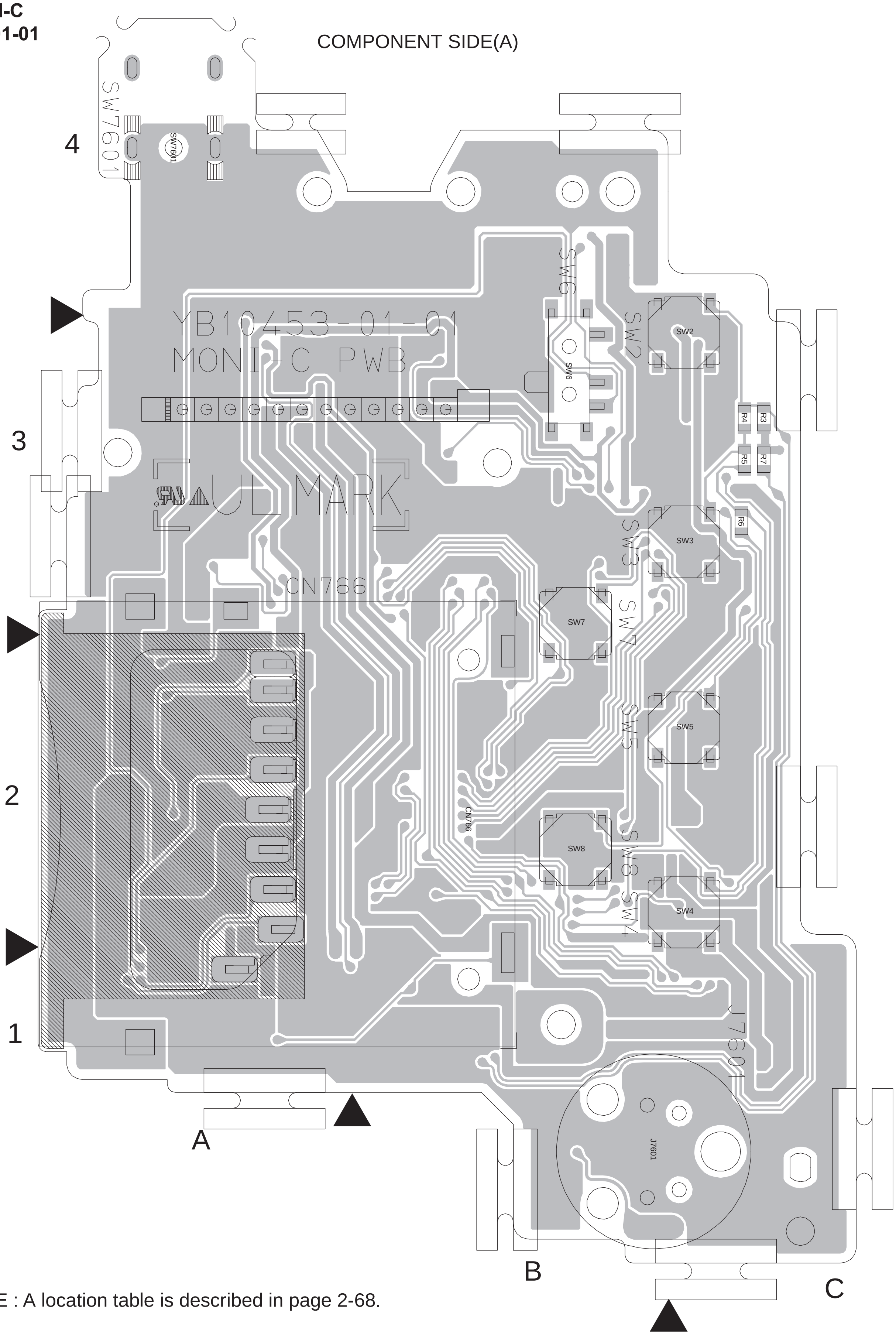
<02> MONI-C SIDE B
YB10453-01-01


FOIL SIDE(B)
4
3
2
1
A
B
C
SW7601
R7633
C7641
D7603
R7634
RED
BLACK
Q7608
Q7609
Q7610
C7634
C7652
L7607
C7635
C7653
IC7606
R7613
C7628
Q7603
C7629
C7630
L7604
R7630
C7654
R7607
L7606
R7612
R7617
R7663
R7616
C7645
Q7604
Q7601
R7639
R7619
C7632
L7605
L7603
L7602
ZP5-23
C7637
ZP1-9
C7618
C7619
R7631
R33
R34
D7602
R7618
R7614
R7615
Q7602
R7620
C7631
C7633
C1
ZP1-7
C11
ZP5-18
ZP5-32
IC7602
ZP5-17
PbF
R8
CN765
ZP1-33
40
R9
CN765
CN761
R7642
ZP1-24
02
B2
IC7601
R7608
5
4
R7643
R7627
R7626
ZP5-9
CN761
R7611
R7610
IC7602
R7640
R7641
C7638
R7667
R7666
C7605
C7604
C7603
C7601
R7609
8
1
C7609
12
1
C7602
C7622
C7621
C7627
C7625
R7604
ZP3-20
C7606
R7665
C7626
C7624
C7623
C7639
C7610
13
48
C7620
C7607
C7611
IC7601
L7601
R7646
R7647
R7648
R7654
R7655
C7612
C7616
C7655
24
37
R7651
R7637
C7617
1
Q7605
R7650
R7638
25
36
R7664
ZP2-10
ZP2-5
C10
R7636
R22
R21
L10
R20
R7652
R7653
8
7
R7601
C7614
C7613
R18
ZP2-7
R32
ZP2-9
ZP3-6
R7644
ZP3-13
IC7604
ZP1-10
C7615
R7602
ZP1-12
MONI-C PWB ASS'Y
YB10453 01-01
10
R31
R28
R23
ZP2-6
14
1
ZP1-23
ZP2-8
CN762
D11
ZP2-4
CN763
CN763
R7645
C7642
R7622
R7621
R19
R29
R25
R26
R30
ZP3-17
IC7604
D10
Q10
ZP2-2
ZP3-19
ZP1-3
ZP3-18
ZP1-2
R7605
ZP1-1
J7601
R7606
D7604

NOTE : A location table is described in page 2-68.

■ MONI-C CIRCUIT BOARD

<02> MONI-C
YB10453-01-01

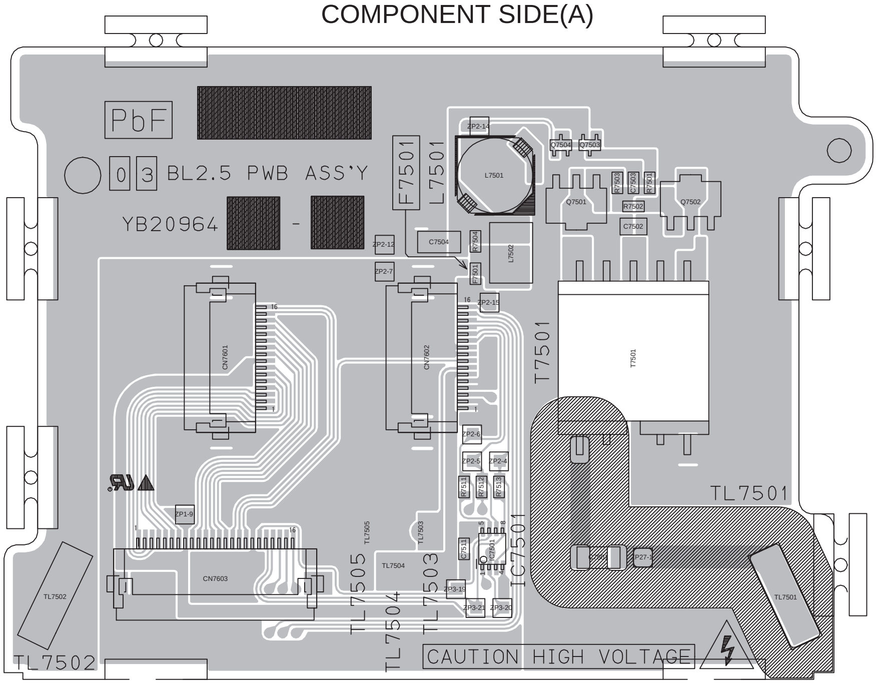

COMPONENT SIDE(A)
SW7601
YB10453-01-01
MONI-C PWB
UL MARK
CN766
SW6
SW2
SW3
SW7
SW5
SW8
SW4
R4
R3
R5
R7
R6
J7601
4
3
2
1
A
B
C

NOTE : A location table is described in page 2-68.

■ BL2.5 CIRCUIT BOARD

<03> BL2.5
YB20964

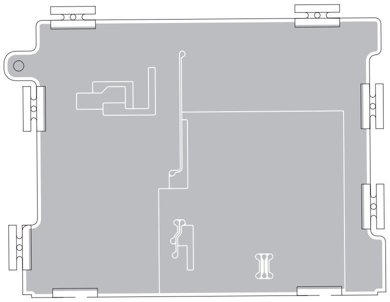
COMPONENT SIDE(A)



PbF
03 BL2.5 PWB ASS'Y
YB20964
F7501
L7501
T7501
TL7501
TL7502
TL7503
TL7504
TL7505
IC7501
CN7601
CN7602
CN7603
Q7501
Q7502
Q7503
Q7504
C7502
C7504
L7502
R7502
CAUTION HIGH VOLTAGE

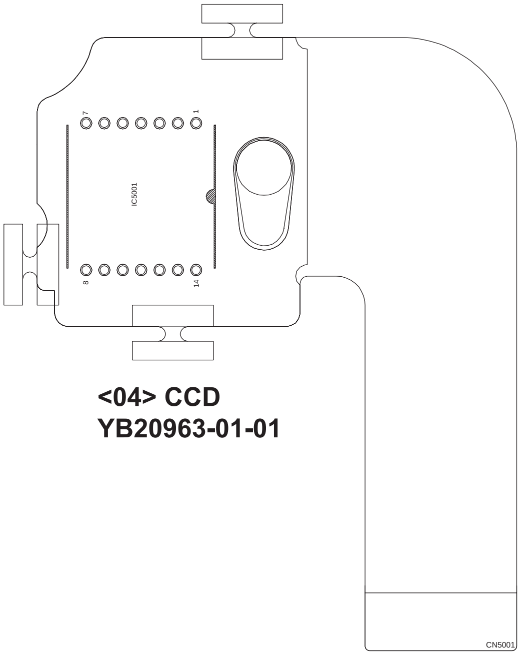
<03> BL2.5
YB20964

FOIL SIDE(B)



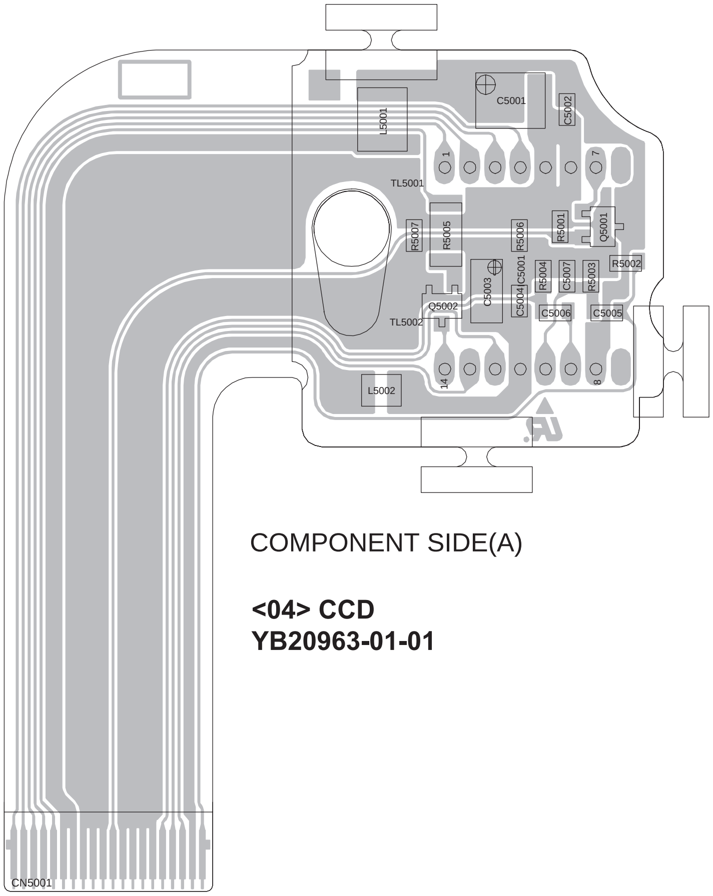
■ CCD CIRCUIT BOARD

FOIL SIDE(B)



IC5001
7
1
8
14
CN5001

<04> CCD
YB20963-01-01



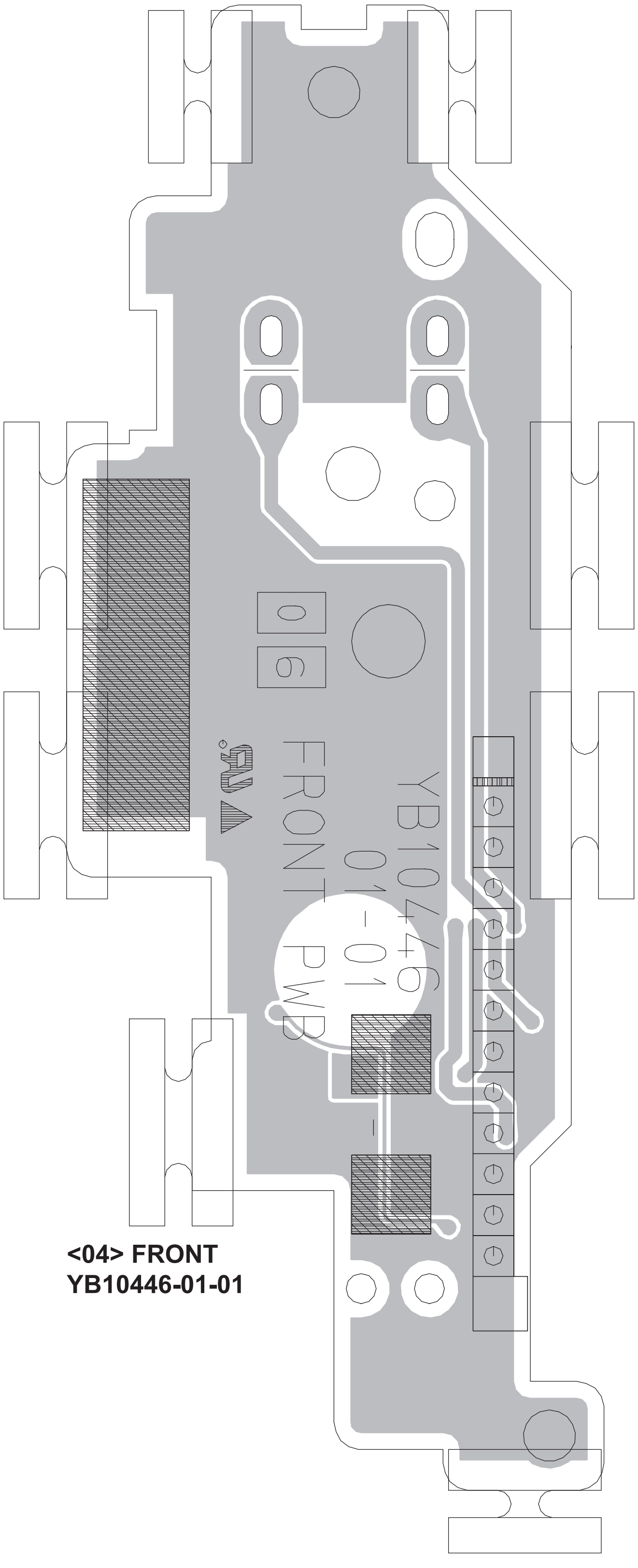
C5001
C5002
L5001
L5002
TL5001
TL5002
R5001
R5002
R5003
R5004
R5005
R5006
R5007
Q5001
Q5002
C5003
C5004
C5005
C5006
C5007
1
7
14
8
CN5001

COMPONENT SIDE(A)

<04> CCD
YB20963-01-01

■ FRONT CIRCUIT BOARD

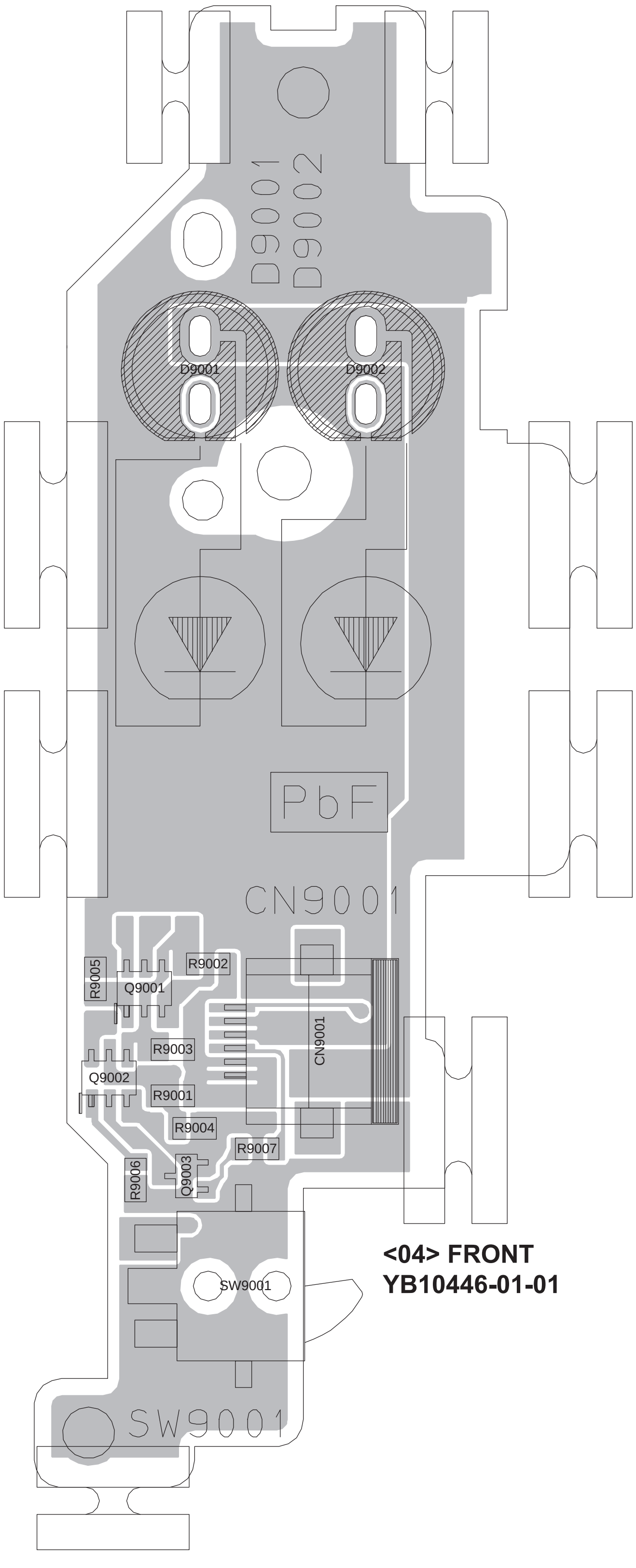
FOIL SIDE(B)



0
6
YB10446
01-01
FRONT PWB

<04> FRONT
YB10446-01-01

COMPONENT SIDE(A)

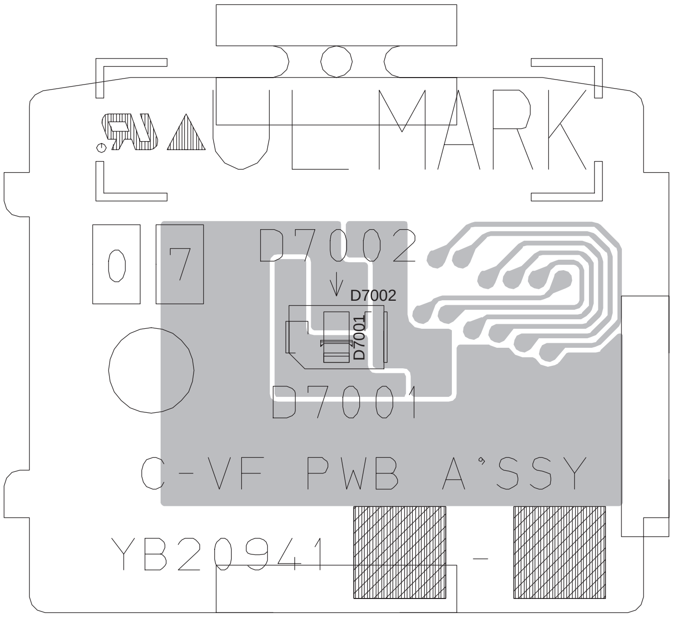


D9001
D9002
D9001
D9002
PbF
CN9001
R9005
Q9001
R9002
R9003
CN9001
Q9002
R9001
R9004
R9007
R9006
Q9003
SW9001
SW9001

<04> FRONT
YB10446-01-01

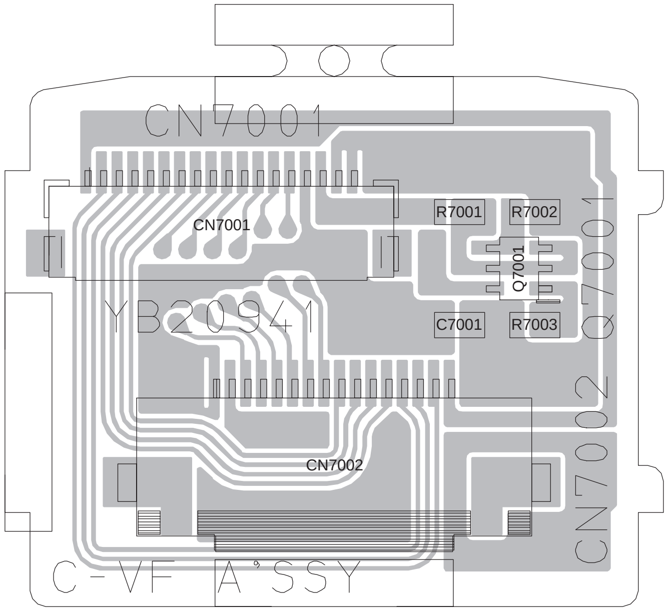
■ C-VF CIRCUIT BOARD

FOIL SIDE(B)


UL MARK
0
7
D7002
D7002
D7001
D7001
C-VF PWB A'SSY
YB20941 -

<07> C-VF SIDE B
YB20941

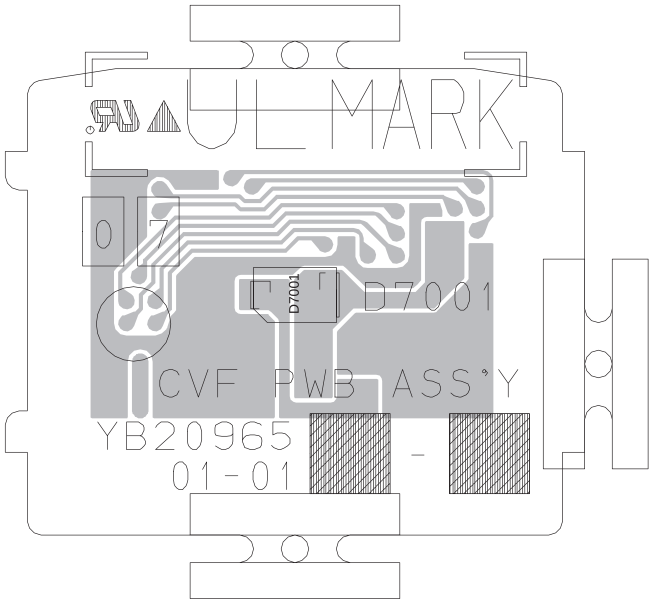
COMPONENT SIDE(A)


CN7001
CN7001
R7001
R7002
Q7001
YB20941
C7001
R7003
Q7001
CN7002
CN7002
C-VF A'SSY

<07> C-VF SIDE A
YB20941

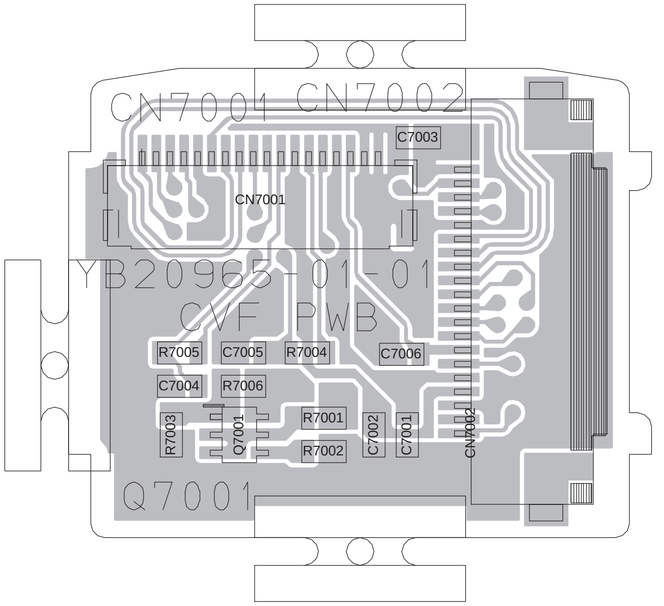
■ C-VF CIRCUIT BOARD

FOIL SIDE(B)


UL MARK
0
7
D7001
D7001
CVF PWB ASS'Y
YB20965
01-01
-

<07> C-VF SIDE B
YB20965-01-01

COMPONENT SIDE(A)


CN7001 CN7002
C7003
CN7001
YB20965-01-01
CVF PWB
R7005
C7005
R7004
C7006
C7004
R7006
R7001
R7003
Q7001
R7002
C7002
C7001
CN7002
Q7001

<07> C-VF SIDE A
YB20965-01-01

■ VOLTAGE CHARTS

<CPU>

MODE PIN NO.	REC	PLAY
IC1001	-	-
IC1002		
1	2.7	2.7
2	2.4	2.4
3	0	2.7
4	0	3.0
5	3.0	3.1
6	0	0
7	0	0
8	1.4	1.5
9	0	0
10	0	0
11	0	0
12	0	0
13	0	0
14	0	0
15	0	0
16	0	0
17	0	0
18	0	0
19	2.9	3.0
20	2.8	2.8
IC1003		
1	0	0
2	2.9	2.9
3	0	0
4	3.0	3.0
5	3.0	3.0
IC1004		
1	0	1.5
2	0	0
3	1.2	1.3
4	0	0
5	3.0	3.0
IC1005		
1	3.0	3.0
2	0	0
3	3.0	3.0
4	0	0
5	3.0	3.0
6	3.0	3.0
7	3.0	3.0
8	3.0	3.0
IC1006		
1	0	0
2	3.0	3.0
3	3.0	3.0
4	0	0
5	0	0.4
6	0.4	0
7	0	0
8	3.0	3.1
IC1007		
1	3.1	3.1
2	3.0	3.0
3	0	0
4	0	0
IC1101		
1	2.4	2.4
2	2.4	2.4
3	0	2.4
4	0	0
5	2.4	2.4
6	2.4	2.4
7	1.7	1.8
8	4.8	4.8
IC1151		
1	4.6	3.3
2	0	0
3	4.8	4.8
Q1001		
E	3.0	3.1
C	0	3.1
B	3.0	3.1
Q1002		
1	0	0
2	3.0	3.0
3	3.0	0
4	0	0
5	0	0
Q1003		
1	0	0
2	0	0
3	3.1	0
4	-0.3	-0.9
5	3.1	3.0
Q1004		
1	0	0
2	3.0	3.0
3	3.0	3.0
4	0	0
5	0	0
Q1005		
E	0	0
C	0.7	1.1
B	0	0
Q1006		

MODE PIN NO.	REC	PLAY
E	0	0
C	1.1	1.1
B	0	0
Q1007		
E	0	0
C	3.1	3.1
B	0.5	0.6
Q1008		
E	0	0
C	0	0
B	0	3.0
Q1009		
D	3.0	3.0
S	0	0
G	3.0	3.0
Q1010		
E	0	0
C	0	3.0
B	0	0
Q1101		
E	0	0
C	4.3	4.3
B	-	-

<AUDIO>

MODE PIN NO.	REC	PLAY
IC2201		
1	0	1.6
2	0	0
3	0	1.6
4	3.0	3.0
5	3.0	3.1
6	0	0
7	1.5	1.5
8	1.5	1.4
9	1.5	1.6
10	3.0	3.0
11	2.9	2.9
12	0	3.0
13	1.4	0
14	0	0
15	3.0	0
16	0	0
17	0	0
18	0	0
19	1.5	1.5
20	0	0.1
21	1.5	1.5
22	0	2.4
23	0	1.4
24	0	2.4
25	0.8	1.5
26	0	0
27	0	0
28	4.8	4.8
29	0	0
30	2.4	0
31	0	0
32	3.0	0
33	0	1.5
34	0	1.5
35	0	1.5
36	1.5	1.5
37	1.5	0
38	1.5	0
39	0	0
40	1.5	0
41	0	0
42	4.0	0
43	2.7	0
44	4.0	0
45	0	0
46	1.5	0
47	1.5	1.4
48	1.5	0
Q2202		
1	0.9	0
2	0.3	0
3	0	0
4	0.9	0
5	0.3	0
6	0	0
Q2401		
E	4.0	4.4
C	4.8	4.8
B	4.7	4.8
Q2403		
E	3.0	2.9
C	4.8	4.8
B	3.7	3.6

<DV MAIN>

MODE PIN NO.	REC	PLAY
IC3001	-	-
IC3002		
1	0	0
2	0.5	0.5
3	0.4	0
4	2.6	2.6
5	1.6	1.6
6	2.4	2.4
7	1.2	1.2
8	3.1	3.1
9	3.1	3.1
10	0	3.1
11	3.1	3.1
12	2.0	2.0
13	1.6	1.6
14	0	0
15	0	0
16	3.0	3.0
17	3.0	3.0
18	1.5	1.5
19	0	0
20	0	0
IC3005		
1	0	0.5
2	0	0
3	0	0
4	1.5	1.7
5	0	0
6	0	0
7	0	0
8	3.1	3.1
Q3001		
E	1.8	1.8
C	2.8	2.8
B	2.4	2.8
Q3002		
E	0.9	1.2
C	3.1	3.1
B	1.4	1.7

<CAM DSP>

MODE PIN NO.	REC	PLAY
IC4201		
1	1.1	0
2	0.6	3.0
3	0.4	3.0
4	0.2	0
5	0	3.0
6	0	0
7	0	0
8	0	0
9	1.0	0
10	3.0	3.0
11	0	0
12	1.4	1.5
13	3.0	3.0
14	2.5	0
15	3.0	0
16	2.4	0
17	2.4	0
18	0	0
19	0	3.0
20	1.9	0
21	0	0
22	1.9	0
23	1.9	0
24	1.2	0
25	3.0	3.0
26	0	0
27	0	0
28	1.4	0
29	1.9	0
30	0.9	0
31	3.0	3.0
32	0	0
33	3.0	3.0
34	0	3.0
35	3.0	3.0
36	1.5	0
IC4202		
1	4.8	4.8
2	0	0
3	1.3	1.3
4	3.0	3.0
5	4.8	4.8
IC4301	-	-

<REG>

MODE PIN NO.	REC	PLAY
IC6001		
1	3.1	3.1
2	3.0	3.0
3	3.0	3.0
4	0	3.0
5	0	3.1
6	0	0
7	0	1.3
8	11.0	0
9	0	1.0
10	1.3	0
11	2.1	2.2
12	0	0
13	0	0
14	0	0
15	0	0
16	0	0
17	0	0.2
18	0	0
19	2.2	2.2
20	1.0	1.0
21	0	0
22	2.2	2.2
23	1.0	1.0
24	0.7	0.7
25	0	1.0
26	0	0.6
27	0	1.0
28	0.8	0.8
29	1.0	1.0
30	0.6	0.6
31	0.3	0
32	0.3	0.3
33	0.6	0.6
34	0.1	0.1
35	0.1	0.1
36	0.5	0.5
37	0.8	0.8
38	0	0
39	1.0	1.0
40	0	0
41	2.4	2.4
42	0	0
43	0	0
44	2.2	2.2
45	0	2.2
46	2.2	0
47	6.0	0
48	1.1	1.1
49	0	0
50	3.1	3.1
51	0	11.0
52	0	0
53	9.8	9.8
54	0	8.6
55	0	0
56	0	0
57	0	0
58	0	7.8
59	0	0
60	0	0
61	0	0
62	0	11.2
63	0	1.3
64	0	1.0
IC6801		
1	11.0	11.0
2	0	0
3	1.0	1.0
4	10.1	10.1
5	11.0	11.0
Q6101		
1	0	0
2	11.0	11.0
3	7.8	7.8
4	3.1	3.1
5	0	0
6	3.1	3.1
Q6102		
E	3.1	3.1
C	2.8	2.5
B	3.0	3.1
Q6201		
1	0	0
2	11.0	11.0
3	9.1	9.1
4	1.8	1.8
5	0	0
6	1.8	1.8
Q6301		
1	0	0
2	11.0	11.0
3	5.9	6.0
4	4.9	4.9
5	0	0
6	4.9	4.9
Q6302		

MODE PIN NO.	REC	PLAY
E	4.8	4.8
C	-0.5	-0.2
B	4.8	4.8
Q6303		
E	0	0
C	4.8	4.8
B	0	0
Q6401		
1	0	0
2	11.0	11.0
3	8.5	8.6
4	0	2.7
5	0	0
6	2.7	2.7
Q6501		
1	0	0
2	11.0	11.0
3	9.7	9.7
4	1.1	1.1
5	0	0
6	1.2	1.1
Q6601		
D	11.0	11.0
S	8.3	8.3
G	0	0
Q6603		
E	14.9	14.9
C	12.2	12.2
B	14.3	14.3
Q6604		
E	0	0
C	14.9	14.9
B	-1.0	-1.0
Q6605		
1	-6.9	-7.0
2	-7.5	-7.5
3	-12.9	-14.5
4	-6.9	-7.0
5	-7.4	-7.4
6	-14.9	-14.9
Q6606		
E	-13.5	-14.9
C	-7.4	-7.6
B	-12.9	-14.5
Q6701		
D	11.0	11.0
S	11.0	11.0
G	0	0
Q6801		
1	0	0
2	0	10.8
3	11.0	11.0
4	3.2	3.2
5	3.2	3.2

<DSC>

MODE PIN NO.	REC	PLAY
IC8001	-	-
IC8002		
1	0	0
2	0	0
3	3.1	3.1
4	0	0
5	0	0
6	0	0
7	0	0
8	0	0
9	3.1	3.1
10	0	0
11	0	0
12	0	0
13	0	0
14	0	0
15	3.1	3.1
16	0	0
17	2.6	2.7
18	2.6	2.7
19	2.6	2.7
20	2.6	2.7
21	0	0
22	0	0
23	0	0
24	0	0
25	0	0
26	0	0
27	0	0
28	0	0
29	3.1	3.1
30	0	0
31	0	0
32	0	0
33	0	0
34	0	0
35	3.1	3.1
36	0	0
37	0	0
38	0	0
39	0	0
40	0	0
41	0	3.1
42	0	0
43	3.1	3.1
44	0	0
45	0	0
46	0	0
47	0	0
48	0	0
49	3.1	3.1
50	0	0
51	0	0
52	0	0
53	0	0
54	0	0
55	3.1	3.1
56	0	0
57	0	0
58	0	0
59	0	0
60	0	0
61	0	0
62	0	0
63	0	0
64	0	0
65	0	0
66	0	0
67	0	0
68	0	0
69	0	0
70	0	0
71	0	0
72	0	0
73	0	0
74	0	0
75	3.1	3.1
76	0	0
77	0	0
78	0	0
79	0	0
80	0	0
81	3.1	3.1
82	0	0
83	0	0
84	0	0
85	0	0
86	0	0
IC8003		
1	0	0
2	0	0
3	0	0
4	0	0
5	0	0
6	0	0
7	0	0
8	0	0

MODE PIN NO.	REC	PLAY
9	0	0
10	0	0
11	0	2.7
12	0	3.0
13	0	0
14	0	0
15	0	0.3
16	0	0
17	0	0
18	0	0
19	0	0
20	0	0
21	0	0
22	0	0
23	0	0
24	0	2.7
25	0	0
26	2.7	2.7
27	0	0
28	2.7	2.7
29	0.5	0.3
30	2.3	2.2
31	0.5	0.3
32	2.3	2.2
33	0.4	0.3
34	2.3	2.2
35	0	0.3
36	0	2.2
37	0	3.1
38	0.4	0.3
39	0	2.2
40	0	0.3
41	2.2	2.2
42	0.4	0.3
43	2.2	2.3
44	0.3	0.3
45	2.3	2.2
46	0	0
47	3.1	3.1
48	0	0
IC8004		
1	0.7	0.7
2	0.5	0.5
3	0	0
4	0	0
IC8006		
1	0.7	0.7
2	0	0
3	0	0
4	0	0
5	0.7	0.7
6	0	0
7	0	0.3
8	0	0
9	0	0
10	0	0
11	0	0
12	0	0.7
13	0	0
14	0.4	0
15	0	0
16	0	0
Q8002		
E	0	3.1
C	0.7	0.7
B	3.0	3.0

<OP DRV>

MODE PIN NO.	REC	PLAY
IC4802		
1	3.1	3.2
2	0	2.6
3	2.6	2.6
4	4.8	4.8
5	0.6	0.6
6	0.6	0.6
7	1.2	1.1
8	0	2.7
9	0	2.6
10	2.6	2.6
11	0	0
12	2.6	2.6
13	2.6	2.6
14	2.6	2.6
IC4804		
1	1.6	0.3
2	1.4	2.5
3	1.4	0
4	0	0
5	1.6	2.9
6	1.6	3.0
7	1.9	0
8	4.8	4.8
IC4807		
1	1.6	3.0
2	1.6	3.0
3	4.8	4.8
4	0	0
5	1.6	3.0
6	1.6	3.0
7	4.8	0
8	4.8	0
IC4851		
1	0	0
2	0.6	0.6
3	0.3	0.3
4	0	0
5	0.3	0.3
6	0	0
7	0	0
8	3.1	3.1
9	4.6	4.6
10	0.5	0.2
11	0	0
12	0.5	0.2
13	4.6	4.6
14	0.2	0.2
15	0	0
16	0.2	0.2
17	0	0
18	0	0
19	0	0
20	0	0
21	0	0
22	0	0
23	0	4.6
24	0	0.1
25	0	0
26	0	0.2
27	0	4.6
28	0.2	0.2
29	0	0
30	0.2	0.2
31	3.1	3.0
32	0	0
33	0	0
34	3.0	3.0
35	3.0	0
36	1.5	1.5
37	1.5	1.5
38	0	0
Q4801		
E	0.6	0.6
C	2.1	2.1
B	1.2	1.2
Q4802		
E	0	0
C	1.6	3.0
B	0	0
Q4803		
E	0	0
C	4.8	4.8
B	0	0
Q4804		
E	4.8	4.8
C	1.6	3.0
B	4.8	4.8
Q4805		
E	4.8	4.8
C	1.6	3.0
B	4.8	4.8

MODE PIN NO.
Q4806
E
C
B
Q4851
E
C
B

<USB>

MODE PIN NO.
IC8301
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48

<AUDIO A

MODE PIN NO.
IC2101
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16

DE NO.	REC	PLAY
806		
E	1.4	0
C	4.8	4.8
B	2.0	0
851		
E	0	0
C	0	3.5
B	0	0

SB>

DE NO.	REC	PLAY
3301		
1	0.5	0.5
2	1.4	0.3
3	0	0
4	3.0	3.0
5	4.8	4.8
6	0	0
7	0	4.8
8	4.8	4.8
9	4.8	4.8
10	3.1	3.0
11	3.1	3.0
12	0	0
13	0	0
14	2.3	2.2
15	2.3	2.2
16	2.3	2.2
17	2.3	2.2
18	2.3	2.2
19	2.3	2.2
20	0	0
21	3.0	3.1
22	2.3	2.2
23	0	2.2
24	0	0.2
25	0.6	0.3
26	0.6	0.3
27	0.5	0.3
28	0.5	0.3
29	0.5	0.3
30	0.5	0
31	0	0
32	3.1	3.0
33	0.4	0.3
34	0	0
35	2.7	2.7
36	2.6	2.7
37	0	0
38	2.7	2.7
39	0	4.8
40	3.0	3.0
41	0	0
42	0.5	0.4
43	0.3	0.3
44	4.8	4.8
45	0	0
46	0	3.1
47	0	0
48	0	0

UDIO AD>

DE NO.	REC	PLAY
2101		
1	0	0
2	0	0
3	0	0
4	0	0
5	3.0	3.1
6	3.0	3.1
7	0	0
8	0	0
9	0	0
10	0	0.3
11	0	0
12	0.2	0.3
13	0	0
14	0	0
15	0	0
16	0	0

<VIDEO I/O>

MODE PIN NO.	REC	PLAY
IC3201	-	-
IC3701		
1	0	0
2	1.9	1.9
3	0	0
4	0	0
5	0	0
6	0	0
7	1.9	1.9
8	0	0
9	2.3	2.3
10	0	0
11	1.1	1.1
12	1.1	1.1
13	4.8	4.8
14	1.0	1.0
15	1.0	1.0
16	4.8	4.8
IC3731		
1	3.0	3.0
2	1.1	1.2
3	4.8	4.8
4	1.2	1.3
5	0	0
6	1.3	1.4
Q3701		
1	1.8	1.6
2	1.2	1.1
3	0	0
4	1.3	1.0
5	0.7	0.4
6	0	0
Q3702		
1	0	0
2	0	0
3	0	0
4	4.8	4.8
5	4.4	4.4
6	4.4	4.4
Q3704		
E	0.9	0.9
C	0	0
B	0.3	0.3
Q3705		
1	0.9	0.9
2	0.3	0.3
3	0	0
4	0.9	0.9
5	0.3	0.3
6	0	0
Q3731		
E	0	0
C	4.8	4.8
B	0	0
Q3732		
E	0	0
C	0	0
B	3.0	3.0
Q3733		
1	0	0
2	0.4	0.4
3	0	0
4	4.8	4.8
5	0	0
6	4.8	4.8
Q3734		
E	0	0
C	4.8	4.8
B	0	0
Q3735		
1	0	0
2	0	0
3	0	0
4	1.4	1.4
5	0.8	0.8
6	4.8	4.8

<TG>

MODE PIN NO.	REC	PLAY
IC5501		
1	0	0
2	3.0	3.0
3	3.0	3.0
4	3.0	3.0
5	0	0
6	3.0	3.1
7	0.3	0
8	0.4	0
9	0	0
10	3.0	3.1
11	1.6	0
12	3.0	3.0
13	0	0
14	1.3	0
15	0	0
16	3.0	3.1
17	2.4	0
18	2.4	0
19	0	0
20	0	0
21	0	0
22	1.4	1.4
23	0	0
24	3.0	3.1
25	0	0.7
26	3.0	0
27	2.5	0
28	3.0	0
29	0	0
30	0.3	2.8
31	0	3.0
32	3.0	0
33	3.0	3.1
34	1.5	0
35	1.4	0
36	3.0	3.1
37	0	0
38	0	0
39	0	0
40	-0.3	0
41	-7.0	0
42	-0.3	0
43	14.9	14.9
44	-7.0	14.9
45	-7.0	14.9
46	0	0
47	0	0
48	3.0	3.0

<MONI-C>

MODE PIN NO.	EE
IC7601	
1	0
2	0
3	2.4
4	0
5	0
6	0
7	2.4
8	2.4
9	0
10	12.2
11	0
12	0
13	6.2
14	0
15	6.2
16	0
17	0
18	0
19	6.2
20	1.8
21	1.5
22	1.4
23	0
24	0.4
25	0
26	0.2
27	0.8
28	1.4
29	3.0
30	0.3
31	0
32	0
33	0.4
34	1.4
35	0
36	2.8
37	0
38	0
39	3.0
40	3.0
41	1.5
42	3.0
43	0
44	0
45	3.0
46	2.8
47	2.5
48	2.5
IC7602	
1	5.9
2	5.9
3	5.9
4	0
5	4.8
6	4.8
7	7.2
8	12.2
Q7601	
E	-10.5
C	0
B	-9.9
Q7602	
E	-9.3
C	-14.9
B	-9.9
Q7603	
E	-9.9
C	0
B	-9.4
Q7604	
E	-9.9
C	-14.9
B	-10.5
Q7608	
E	0
C	0
B	3.0
Q7609	
E	0
C	4.8
B	0
Q7610	
E	4.8
C	1.4
B	4.8

<BL2.5>

MODE PIN NO.	EE
IC7504	-
Q7501	
E	0
C	4.3
B	0.4
Q7502	
E	0
C	4.4
B	0.4
Q7503	
E	4.5
C	4.4
B	0
Q7504	
E	0
C	0
B	3.0

<CCD>

MODE PIN NO.	EE
IC5001	
1	-7.1
2	-7.1
3	-0.3
4	-0.3
5	0
6	0
7	0
8	14.9
9	13.8
10	9.8
11	-7.5
12	1.6
13	1.4
14	9.9
Q5001	
E	11.3
C	14.9
B	12.1
Q5002	
E	0
C	9.9
B	0

<FRONT>

MODE PIN NO.	REC	PLAY
Q9001		
1	0	0
2	0.2	0.2
3	0	0
4	0.2	0.2
5	0.9	0.9
6	2.5	2.5
Q9002		
1	0	0
2	0.2	0.2
3	0	0
4	0.2	0.2
5	0.9	0.9
6	2.5	2.5
Q9003		
E	0	0
C	0.2	0.2
B	0.7	0.7

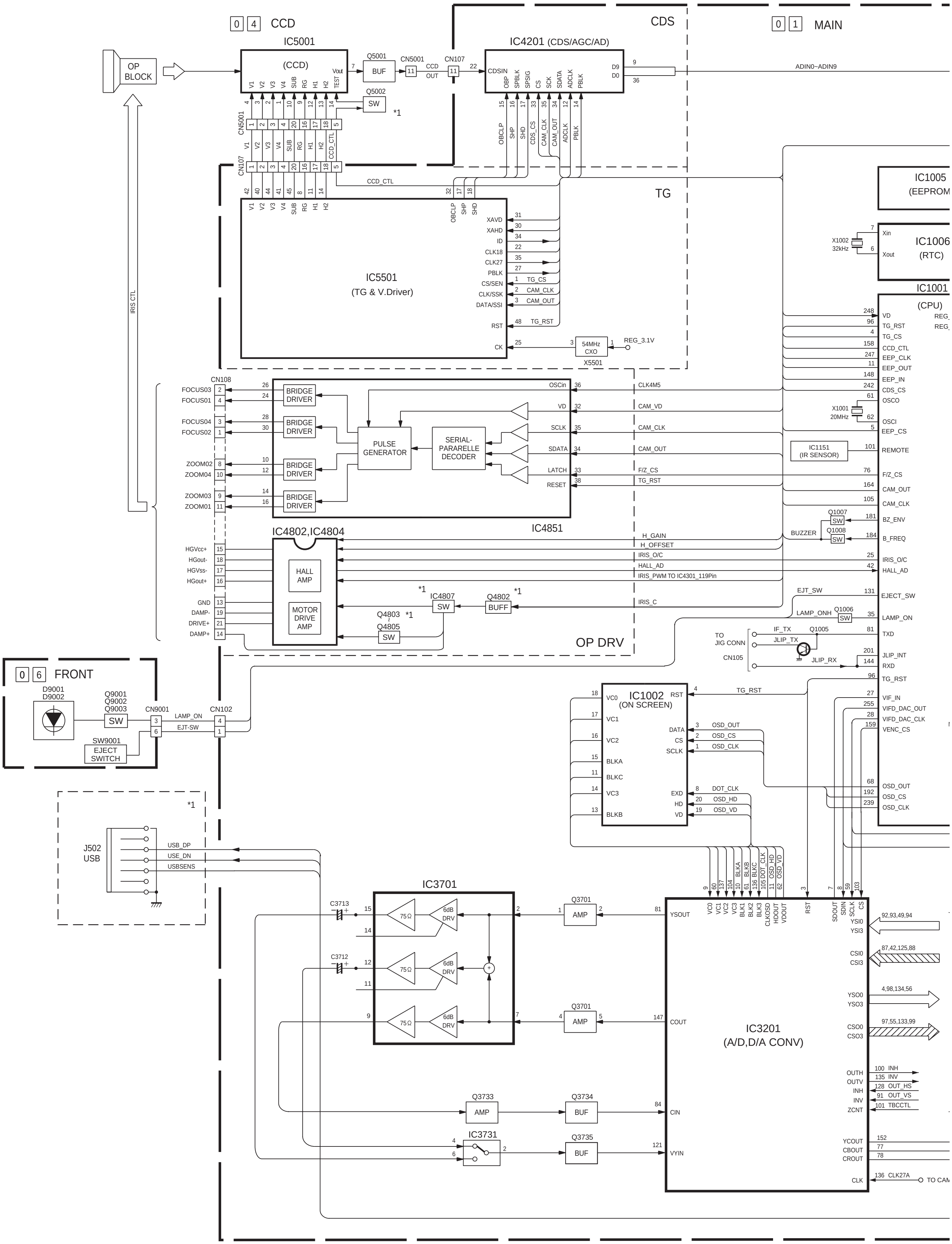
<MDA>

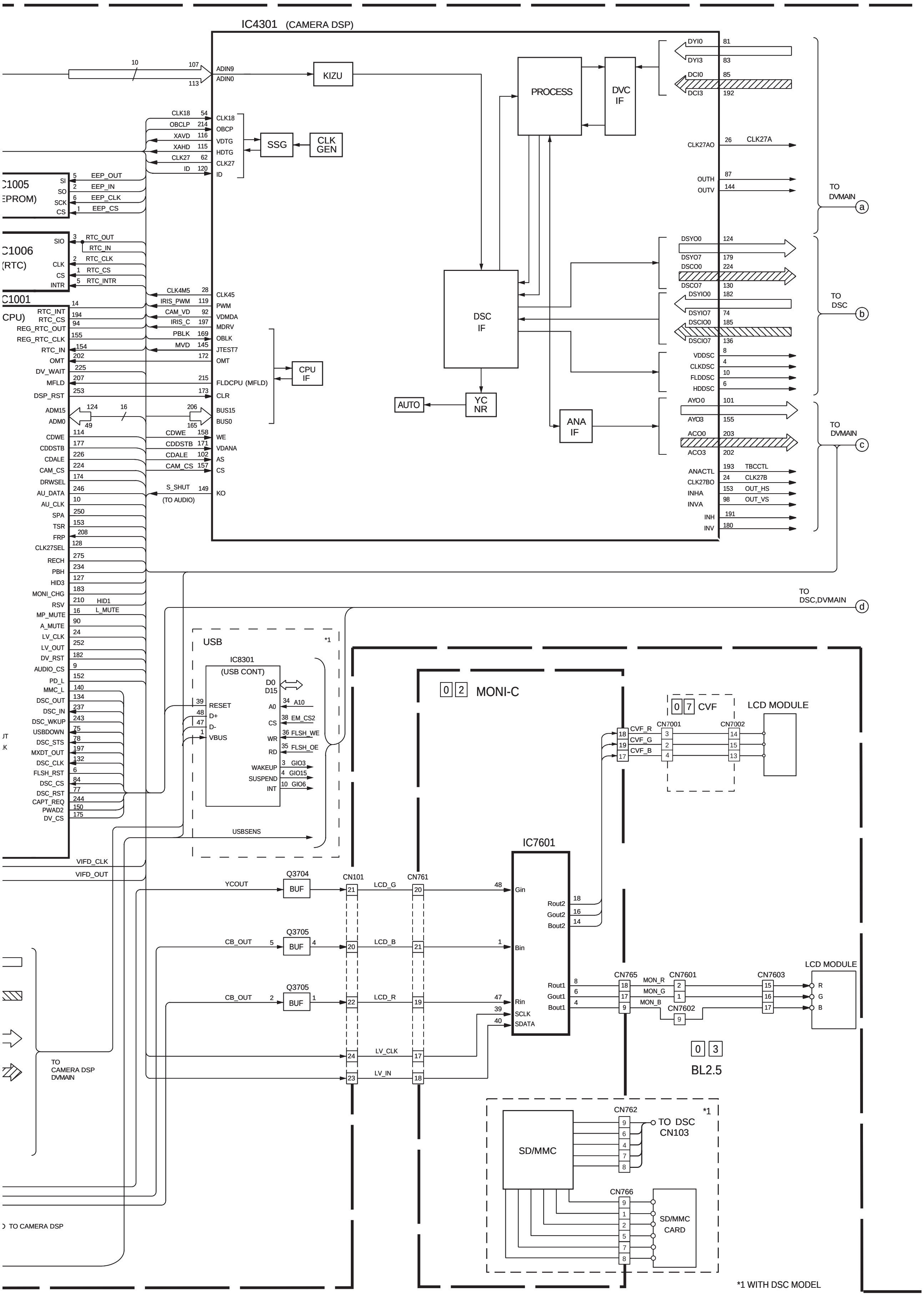
MODE PIN NO.	REC	PLAY
IC1601		
1	0	0
2	0.4	0.4
3	0	0.4
4	0	0
5	0.4	0.5
6	0	0
7	0	0
8	1.6	1.6
9	1.6	1.6
10	1.6	1.6
11	1.6	1.6
12	1.6	1.6
13	1.6	1.6
14	2.8	2.8
15	1.2	1.2
16	1.5	1.5
17	0	1.5
18	0	1.5
19	1.5	1.5
20	1.5	1.5
21	3.1	3.1
22	0	0
23	0	0.4
24	0	1.4
25	1.4	1.4
26	0	11.0
27	0	0
28	2.7	2.7
29	0.7	0.7
30	1.4	1.4
31	0.7	0.7
32	1.0	1.0
33	0	1.3
34	0	0
35	1.3	0
36	0	0
37	0	0
38	0	0
39	0	1.6
40	0	0
41	0	0
42	0	0
43	0	0
44	0	0
45	0	4.7
46	1.5	1.5
47	1.5	1.5
48	1.6	0
49	1.5	1.5
50	0	0
51	-	-
52	0	0
53	12.4	12.4
54	0	0
55	0	0
56	0	0
57	0	2.9
58	3.0	3.0
59	0	0
60	1.1	1.1
61	0.3	0.3
62	1.5	1.5
63	0	0.7
64	1.0	0.9
IC1701		
1	-	-
2	1.5	1.5
3	1.5	1.5
4	0	0
5	1.5	1.5
6	1.5	1.5
7	-	-
8	4.7	4.7
IC1702		
1	-	-
2	1.5	1.5
3	-	-
4	0	0
5	-	-
6	1.5	1.5
7	-	-
8	4.6	4.6
Q1601		
1	0	0
2	0	0
3	4.7	4.7
4	0	0
5	4.7	4.6

<PRE/REC>

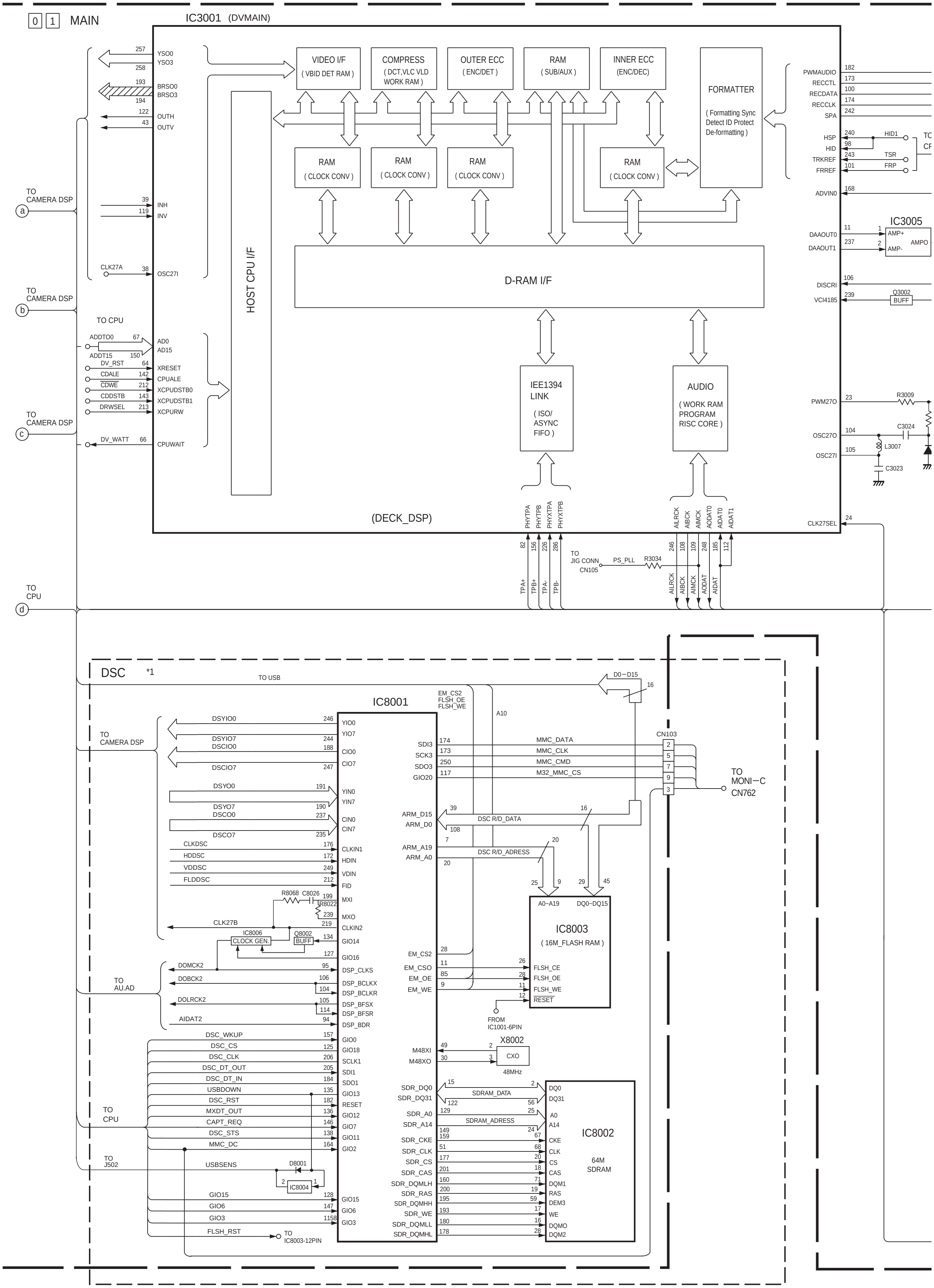
MODE PIN NO.	REC	PLAY
	IC3501	
1	0	0
2	0	0.5
3	0	0
4	0	1.6
5	2.8	2.5
6	0	1.5
7	0	0
8	0	0
9	1.3	0
10	1.5	1.5
11	0	3.1
12	0	0
13	4.8	4.8
14	0	0
15	0	0
16	0	0
17	0	0
18	3.8	1.7
19	3.6	1.7
20	3.6	1.7
21	3.8	1.7
22	0	0
23	3.8	1.7
24	3.6	1.7
25	3.6	1.7
26	3.8	1.7
27	0	0
28	1.4	1.3
29	3.6	1.8
30	3.6	1.8
31	1.4	1.2
32	0	0
33	0	0
34	0	0
35	1.8	1.8
36	0.4	0.4
37	3.1	0
38	0	0
39	3.1	0
40	1.5	0
41	0	0
42	3.0	0
43	4.8	0
44	3.1	0
45	0	0
46	0	0
47	0	0
48	4.3	0
49	4.3	2.9
50	0.6	1.6
51	1.4	0
52	0	1.7
53	0	0
54	0	0
55	2.8	1.9
56	1.1	1.1
57	0	0
58	0	1.3
59	0	0
60	0	0
61	3.0	1.9
62	2.8	2.0
63	0	1.4
64	0	1.9
IC3502		
1	1.5	0
2	1.5	0
3	0	0
4	1.1	3.1
5	0	3.1

■ VIDEO SYSTEM BLOCK DIAGRAM (1/2)

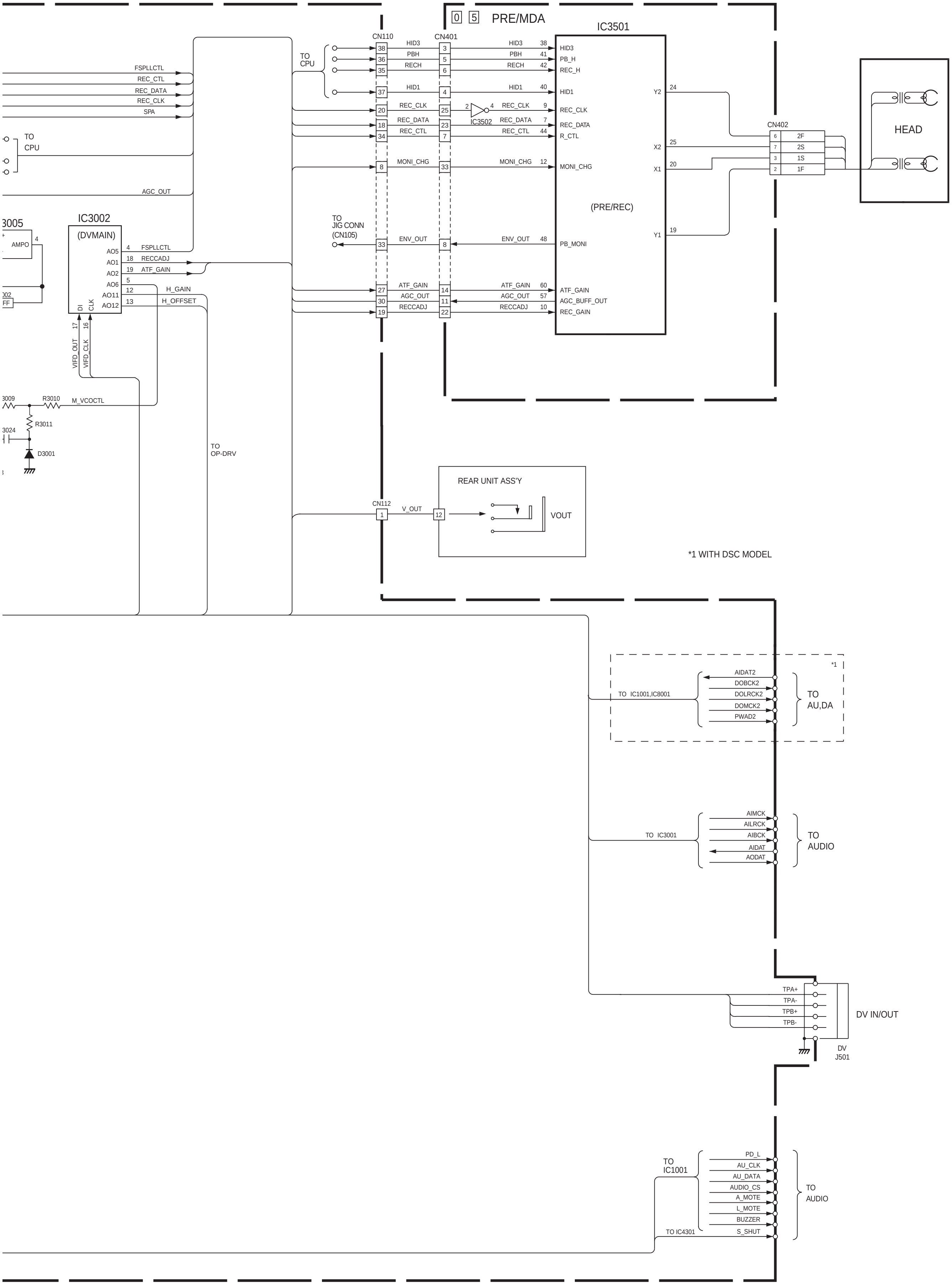

04 CCD
CDS
01 MAIN
IC5001
(CCD)
OP BLOCK
Vout
V1 V2 V3 V4 SUB RG H1 H2 TEST
Q5001
BUF
CN5001
CCD OUT
CN107
Q5002
SW
*1
IC4201 (CDS/AGC/AD)
CDSIN
OBP SPBLK SPSIG CS SCK SDATA ADCLK PBLK
D9
D0
ADIN0~ADIN9
OBCLP SHP SHD CDS_CS CAM_CLK CAM_OUT ADCLK PBLK
CCD_CTL
TG
IC1005
(EEPROM
IC1006
(RTC)
X1002
32kHz
Xin
Xout
IC5501
(TG & V.Driver)
XAVD XAHD ID CLK18 CLK27 PBLK CS/SEN CLK/SSK DATA/SSI RST CK
TG_CS
CAM_CLK
CAM_OUT
TG_RST
54MHz CXO
X5501
REG_3.1V
IRIS CTL
IC1001
(CPU)
VD TG_RST TG_CS CCD_CTL EEP_CLK EEP_OUT EEP_IN CDS_CS OSCO OSCI EEP_CS REMOTE F/Z_CS CAM_OUT CAM_CLK BZ_ENV B_FREQ IRIS_O/C HALL_AD EJECT_SW LAMP_ON TXD JLIP_INT RXD TG_RST VIF_IN VIFD_DAC_OUT VIFD_DAC_CLK VENC_CS OSD_OUT OSD_CS OSD_CLK
X1001
20MHz
IC1151
(IR SENSOR)
CN108
FOCUS03 FOCUS01 FOCUS04 FOCUS02 ZOOM02 ZOOM04 ZOOM03 ZOOM01
BRIDGE DRIVER
PULSE GENERATOR
SERIAL-PARARELLE DECODER
OSCin VD SCLK SDATA LATCH RESET
CLK4M5
CAM_VD
CAM_CLK
CAM_OUT
F/Z_CS
TG_RST
IC4851
IC4802,IC4804
HALL AMP
MOTOR DRIVE AMP
HGVcc+ HGout- HGVss- HGout+ GND DAMP- DRIVE+ DAMP+
H_GAIN
H_OFFSET
IRIS_O/C
HALL_AD
IRIS_PWM TO IC4301_119Pin
IRIS_C
IC4807
SW
Q4802
BUFF
Q4803
Q4805
SW
OP DRV
Q1007
Q1008
SW
BUZZER
EJT_SW
LAMP_ONH
Q1006
IF_TX
Q1005
JLIP_TX
JLIP_RX
TO JIG CONN
CN105
06 FRONT
D9001
D9002
Q9001
Q9002
Q9003
SW
CN9001
LAMP_ON
EJT-SW
CN102
SW9001
EJECT SWITCH
IC1002
(ON SCREEN)
VC0 VC1 VC2 BLKA BLKC VC3 BLKB
RST DATA CS SCLK EXD HD VD
OSD_OUT
OSD_CS
OSD_CLK
DOT_CLK
OSD_HD
OSD_VD
J502
USB
USB_DP
USE_DN
USBSENS
IC3701
C3713
C3712
75Ω
6dB DRV
Q3701
AMP
Q3733
AMP
Q3734
BUF
IC3731
Q3735
BUF
IC3201
(A/D,D/A CONV)
YSOUT COUT CIN VYIN
VC0 VC1 VC2 VC3 BLK1 BLK2 BLK3 CLKOSD HDOUT VDOUT RST SDOUT SDIN SCLK CS
BLKA BLKB BLKC DOT_CLK OSD_HD OSD_VD
YSI0 YSI3 CSI0 CSI3 YSO0 YSO3 CSO0 CSO3
92,93,49,94
87,42,125,88
4,98,134,56
97,55,133,99
OUTH OUTV INH INV ZCNT
INH INV OUT_HS OUT_VS TBCCTL
YCOUT CBOUT CROUT
CLK
CLK27A
TO CAM


IC4301 (CAMERA DSP)
KIZU
SSG
CLK GEN
PROCESS
DVC IF
DSC IF
YC NR
AUTO
ANA IF
CPU IF
ADIN9
ADIN0
CLK18
OBCP
VDTG
HDTG
CLK27
ID
CLK45
PWM
VDMDA
MDRV
OBLK
JTEST7
OMT
FLDCPU (MFLD)
CLR
BUS15
BUS0
WE
VDANA
AS
CS
KO
S_SHUT
(TO AUDIO)
C1005
EPROM)
EEP_OUT
EEP_IN
EEP_CLK
EEP_CS
C1006
(RTC)
RTC_OUT
RTC_IN
RTC_CLK
RTC_CS
RTC_INTR
C1001
CPU)
DYI0
DYI3
DCI0
DCI3
CLK27AO
CLK27A
OUTH
OUTV
TO DVMAIN
a
DSYO0
DSYO7
DSCO0
DSCO7
DSYIO0
DSYIO7
DSCIO0
DSCIO7
VDDSC
CLKDSC
FLDDSC
HDDSC
TO DSC
b
AYO0
AYO3
ACO0
ACO3
ANACTL
CLK27BO
INHA
INVA
INH
INV
TBCCTL
CLK27B
OUT_HS
OUT_VS
TO DVMAIN
c
TO DSC,DVMAIN
d
USB
*1
IC8301
(USB CONT)
RESET
D+
D-
VBUS
D0
D15
A0
CS
WR
RD
WAKEUP
SUSPEND
INT
A10
EM_CS2
FLSH_WE
FLSH_OE
GIO3
GIO15
GIO6
USBSENS
VIFD_CLK
VIFD_OUT
YCOUT
CB_OUT
Q3704
Q3705
BUF
CN101
CN761
LCD_G
LCD_B
LCD_R
LV_CLK
LV_IN
02 MONI-C
IC7601
Gin
Bin
Rin
SCLK
SDATA
Rout2
Gout2
Bout2
Rout1
Gout1
Bout1
07 CVF
CN7001
CN7002
CVF_R
CVF_G
CVF_B
LCD MODULE
CN765
CN7601
CN7602
CN7603
MON_R
MON_G
MON_B
R
G
B
03
BL2.5
SD/MMC
CN762
TO DSC CN103
CN766
SD/MMC CARD
TO CAMERA DSP DVMAIN
TO CAMERA DSP
*1 WITH DSC MODEL

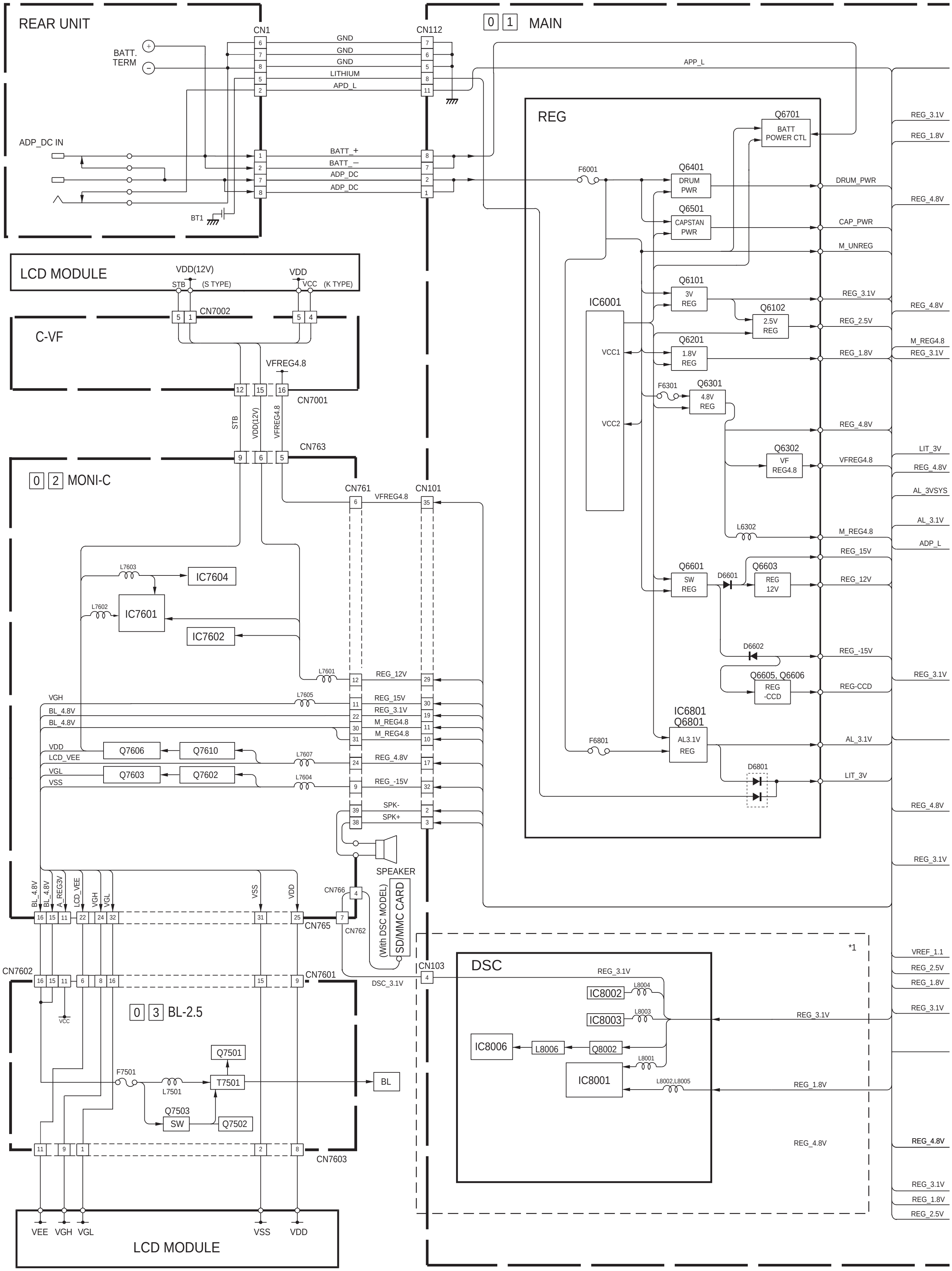
■ VIDEO SYSTEM BLOCK DIAGRAM (2/2)

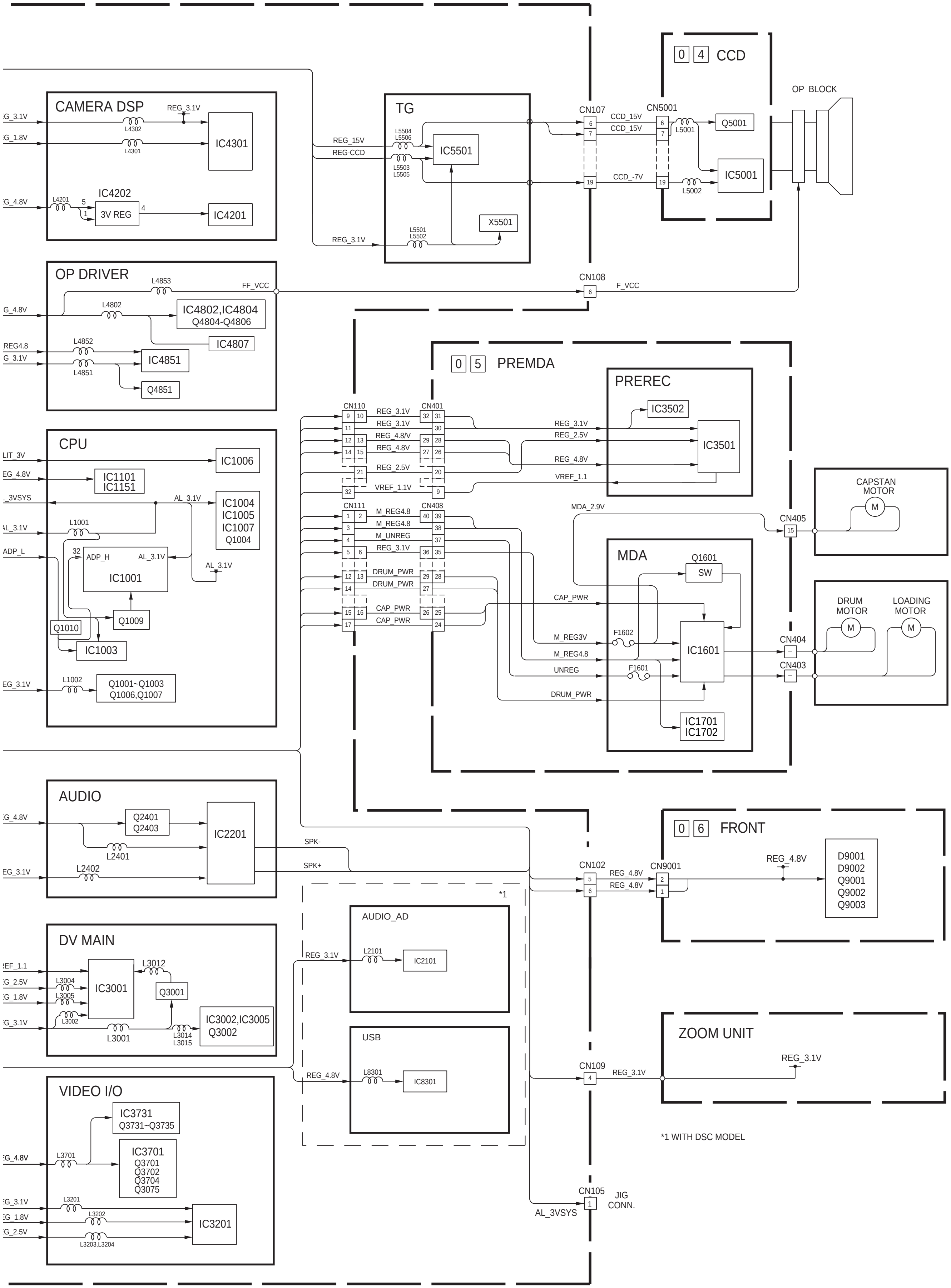


0 1 MAIN
IC3001 (DVMAIN)
YSO0
YSO3
BRSO0
BRSO3
OUTH
OUTV
INH
INV
OSC27I
CLK27A
AD0
AD15
XRESET
CPUALE
XCPUDSTB0
XCPUDSTB1
XCPURW
CPUWAIT
ADDTO0
ADDT15
DV_RST
CDALE
CDWE
CDDSTB
DRWSEL
DV_WATT
TO CAMERA DSP
TO CPU
TO
CPU
a
b
c
d
HOST CPU I/F
VIDEO I/F
(VBID DET RAM)
COMPRESS
(DCT,VLC VLD WORK RAM)
OUTER ECC
(ENC/DET)
RAM
(SUB/AUX)
INNER ECC
(ENC/DEC)
FORMATTER
(Formatting Sync Detect ID Protect De-formatting)
RAM
(CLOCK CONV)
D-RAM I/F
IEE1394 LINK
(ISO/ ASYNC FIFO)
AUDIO
(WORK RAM PROGRAM RISC CORE)
(DECK_DSP)
PHYTPA
PHYTPB
PHYXTPA
PHYXTPB
TPA+
TPB+
TPA-
TPB-
AILRCK
AIBCK
AIMCK
AODAT0
AIDAT0
AIDAT1
AODAT
AIDAT
TO JIG CONN CN105
PS_PLL
R3034
PWMAUDIO
RECCTL
RECDATA
RECCLK
SPA
HSP
HID
TRKREF
FRREF
HID1
TSR
FRP
ADVIN0
DAAOUT0
DAAOUT1
IC3005
AMP+
AMP-
AMPO
DISCRI
VCI4185
Q3002
BUFF
PWM27O
R3009
OSC27O
OSC27I
C3024
L3007
C3023
CLK27SEL
DSC
*1
TO USB
D0−D15
IC8001
EM_CS2
FLSH_OE
FLSH_WE
A10
DSYIO0
DSYIO7
DSCIO0
DSCIO7
DSYO0
DSYO7
DSCO0
DSCO7
CLKDSC
HDDSC
VDDSC
FLDDSC
R8068
C8026
R8022
CLK27B
IC8006
CLOCK GEN.
Q8002
BUFF
YIO0
YIO7
CIO0
CIO7
YIN0
YIN7
CIN0
CIN7
CLKIN1
HDIN
VDIN
FID
MXI
MXO
CLKIN2
GIO14
GIO16
DSP_CLKS
DSP_BCLKX
DSP_BCLKR
DSP_BFSX
DSP_BFSR
DSP_BDR
TO AU.AD
DOMCK2
DOBCK2
DOLRCK2
AIDAT2
SDI3
SCK3
SDO3
GIO20
MMC_DATA
MMC_CLK
MMC_CMD
M32_MMC_CS
CN103
TO MONI−C CN762
ARM_D15
ARM_D0
DSC R/D_DATA
ARM_A19
ARM_A0
DSC R/D_ADRESS
A0~A19
DQ0~DQ15
IC8003
(16M_FLASH RAM)
FLSH_CE
FLSH_OE
FLSH_WE
RESET
EM_CS2
EM_CSO
EM_OE
EM_WE
FROM IC1001-6PIN
X8002
CXO
48MHz
M48XI
M48XO
DSC_WKUP
DSC_CS
DSC_CLK
DSC_DT_OUT
DSC_DT_IN
USBDOWN
DSC_RST
MXDT_OUT
CAPT_REQ
DSC_STS
MMC_DC
USBSENS
TO J502
D8001
IC8004
GIO15
GIO6
GIO3
FLSH_RST
TO IC8003-12PIN
GIO0
GIO18
SCLK1
SDI1
SDO1
GIO13
RESET
GIO12
GIO7
GIO11
GIO2
SDR_DQ0
SDR_DQ31
SDRAM_DATA
SDR_A0
SDR_A14
SDRAM_ADRESS
SDR_CKE
SDR_CLK
SDR_CS
SDR_CAS
SDR_DQMLH
SDR_RAS
SDR_DQMHH
SDR_WE
SDR_DQMLL
SDR_DQMHL
IC8002
64M SDRAM
DQ0
DQ31
A0
A14
CKE
CLK
CS
CAS
DQM1
RAS
DEM3
WE
DQMO
DQM2


0 5 PRE/MDA
IC3501
(PRE/REC)
HID3
PB_H
REC_H
HID1
REC_CLK
REC_DATA
R_CTL
MONI_CHG
PB_MONI
ATF_GAIN
AGC_BUFF_OUT
REC_GAIN
Y2
X2
X1
Y1
CN402
2F
2S
1S
1F
HEAD
CN110
CN401
TO CPU
HID3
PBH
RECH
REC_CLK
REC_DATA
REC_CTL
MONI_CHG
ENV_OUT
ATF_GAIN
AGC_OUT
RECCADJ
IC3502
TO JIG CONN (CN105)
FSPLLCTL
REC_CTL
REC_DATA
REC_CLK
SPA
TO CPU
AGC_OUT
3005
AMPO
IC3002
(DVMAIN)
AO5
AO1
AO2
AO6
AO11
AO12
FSPLLCTL
RECCADJ
ATF_GAIN
H_GAIN
H_OFFSET
DI
CLK
VIFD_OUT
VIFD_CLK
R3010
M_VCOCTL
R3011
D3001
TO OP-DRV
CN112
V_OUT
REAR UNIT ASS'Y
VOUT
*1 WITH DSC MODEL
*1
TO IC1001,IC8001
AIDAT2
DOBCK2
DOLRCK2
DOMCK2
PWAD2
TO AU,DA
TO IC3001
AIMCK
AILRCK
AIBCK
AIDAT
AODAT
TO AUDIO
TPA+
TPA-
TPB+
TPB-
DV IN/OUT
DV J501
TO IC1001
TO IC4301
PD_L
AU_CLK
AU_DATA
AUDIO_CS
A_MOTE
L_MOTE
BUZZER
S_SHUT
TO AUDIO

■ POWER SYSTEM BLOCK DIAGRAM


REAR UNIT
BATT. TERM
ADP_DC IN
BT1
CN1
CN112
GND
GND
GND
LITHIUM
APD_L
BATT_+
BATT_–
ADP_DC
ADP_DC
0 1 MAIN
APP_L
REG
Q6701
BATT POWER CTL
F6001
Q6401
DRUM PWR
Q6501
CAPSTAN PWR
IC6001
VCC1
VCC2
Q6101
3V REG
Q6102
2.5V REG
Q6201
1.8V REG
F6301
Q6301
4.8V REG
Q6302
VF REG4.8
L6302
Q6601
SW REG
D6601
Q6603
REG 12V
D6602
Q6605, Q6606
REG -CCD
IC6801
Q6801
AL3.1V REG
F6801
D6801
DRUM_PWR
CAP_PWR
M_UNREG
REG_3.1V
REG_2.5V
REG_1.8V
REG_4.8V
VFREG4.8
M_REG4.8
REG_15V
REG_12V
REG_-15V
REG-CCD
AL_3.1V
LIT_3V
REG_3.1V
REG_1.8V
REG_4.8V
REG_4.8V
M_REG4.8
REG_3.1V
LIT_3V
REG_4.8V
AL_3VSYS
AL_3.1V
ADP_L
REG_3.1V
REG_4.8V
REG_3.1V
VREF_1.1
REG_2.5V
REG_1.8V
REG_3.1V
REG_4.8V
REG_3.1V
REG_1.8V
REG_2.5V
LCD MODULE
VDD(12V)
STB
(S TYPE)
VDD
VCC
(K TYPE)
C-VF
CN7002
VFREG4.8
CN7001
STB
VDD(12V)
VFREG4.8
CN763
0 2 MONI-C
CN761
CN101
VFREG4.8
L7603
IC7604
L7602
IC7601
IC7602
L7601
REG_12V
VGH
L7605
REG_15V
BL_4.8V
REG_3.1V
BL_4.8V
M_REG4.8
M_REG4.8
VDD
Q7606
Q7610
LCD_VEE
L7607
REG_4.8V
VGL
Q7603
Q7602
VSS
L7604
REG_-15V
SPK-
SPK+
SPEAKER
CN766
BL_4.8V
BL_4.8V
A_REG3V
LCD_VEE
VGH
VGL
VSS
VDD
CN765
CN762
(With DSC MODEL)
SD/MMC CARD
CN103
DSC_3.1V
*1
DSC
REG_3.1V
L8004
IC8002
L8003
IC8003
REG_3.1V
IC8006
L8006
Q8002
L8001
IC8001
L8002,L8005
REG_1.8V
REG_4.8V
CN7602
CN7601
VCC
0 3 BL-2.5
Q7501
F7501
L7501
T7501
BL
Q7503
SW
Q7502
CN7603
LCD MODULE
VEE
VGH
VGL
VSS
VDD


CAMERA DSP
REG_3.1V
L4302
L4301
IC4301
IC4202
3V REG
L4201
IC4201
TG
REG_15V
REG-CCD
REG_3.1V
L5504
L5506
L5503
L5505
IC5501
X5501
L5501
L5502
0 4 CCD
OP BLOCK
CN107
CN5001
CCD_15V
CCD_15V
CCD_-7V
L5001
L5002
Q5001
IC5001
OP DRIVER
L4853
FF_VCC
L4802
IC4802,IC4804
Q4804-Q4806
IC4807
L4852
L4851
IC4851
Q4851
CN108
F_VCC
CPU
LIT_3V
IC1006
IC1101
IC1151
AL_3VSYS
AL_3.1V
IC1004
IC1005
IC1007
Q1004
L1001
ADP_L
ADP_H
IC1001
Q1009
Q1010
IC1003
L1002
Q1001~Q1003
Q1006,Q1007
0 5 PREMDA
PREREC
IC3502
IC3501
CN110
CN401
REG_3.1V
REG_4.8V
REG_2.5V
VREF_1.1V
VREF_1.1
CN111
CN408
M_REG4.8
M_UNREG
DRUM_PWR
CAP_PWR
MDA_2.9V
MDA
Q1601
SW
F1602
F1601
M_REG3V
M_REG4.8
UNREG
IC1601
IC1701
IC1702
CN405
CN404
CN403
CAPSTAN MOTOR
DRUM MOTOR
LOADING MOTOR
M
AUDIO
Q2401
Q2403
IC2201
L2401
L2402
SPK-
SPK+
0 6 FRONT
CN102
CN9001
REG_4.8V
D9001
D9002
Q9001
Q9002
Q9003
*1
AUDIO_AD
L2101
IC2101
USB
L8301
IC8301
DV MAIN
REF_1.1
L3012
L3004
L3005
L3002
IC3001
Q3001
L3001
L3014
L3015
IC3002,IC3005
Q3002
ZOOM UNIT
CN109
VIDEO I/O
IC3731
Q3731~Q3735
IC3701
Q3701
Q3702
Q3704
Q3075
L3701
L3201
L3202
L3203,L3204
IC3201
CN105
JIG CONN.
AL_3VSYS

*1 WITH DSC MODEL

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DIVISION OF JVC AMERICAS CORP.
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JVC CANADA INC.
Head office : 21 Finchdene Square Scarborough, Ontario M1X 1A7 (416)293-1311

Printed in Japan
WPC

PARTS LIST

SAFETY PRECAUTION

Parts identified by the ⚠ symbol are critical for safety. Replace only with specified part numbers.

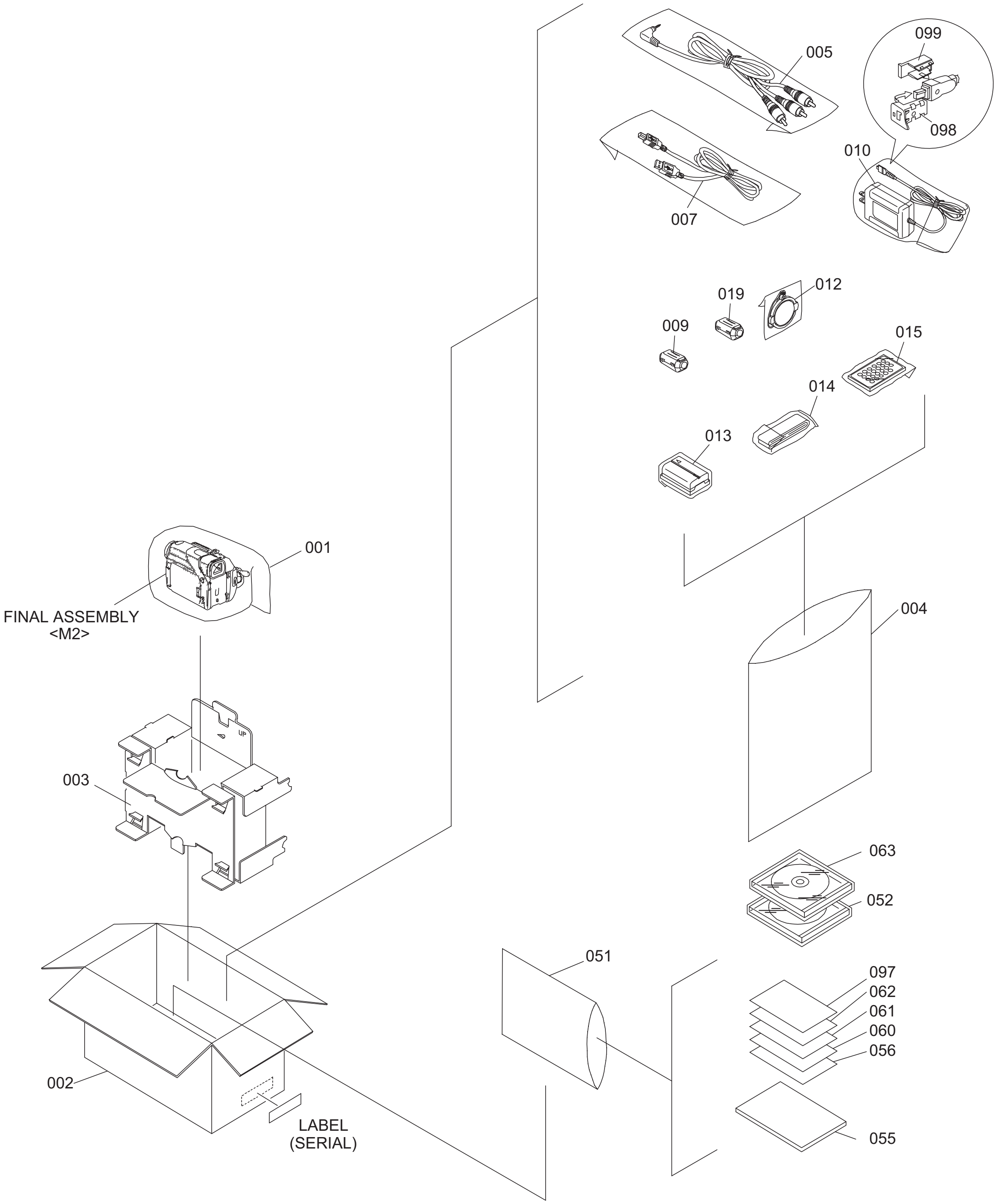
BEWARE OF BOGUS PARTS

Parts that do not meet specifications may cause trouble in regard to safety and performance. We recommend that genuine JVC parts be used.

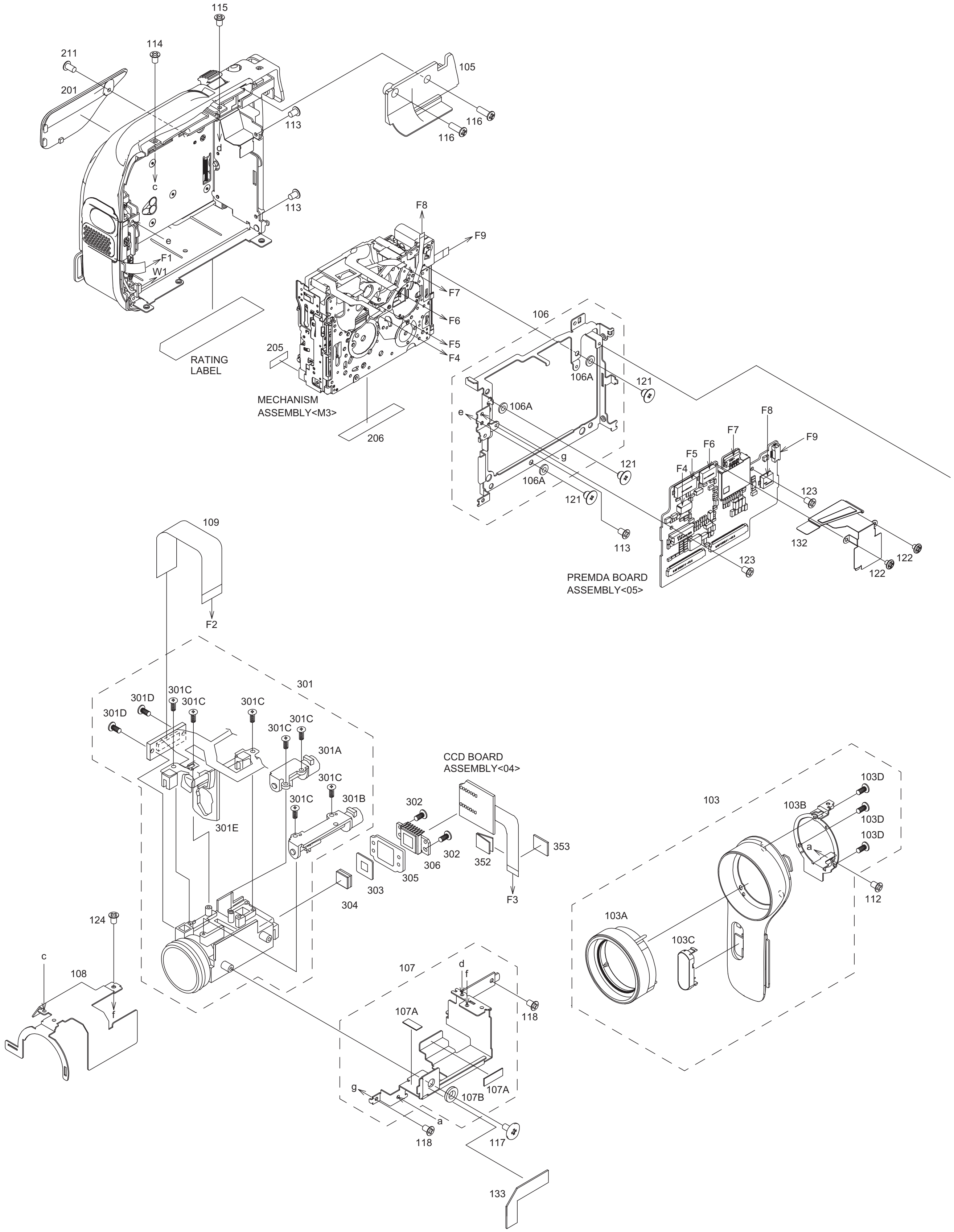
1. EXPLODED VIEW

1.1 PACKING AND ACCESSORY ASSEMBLY <M1>

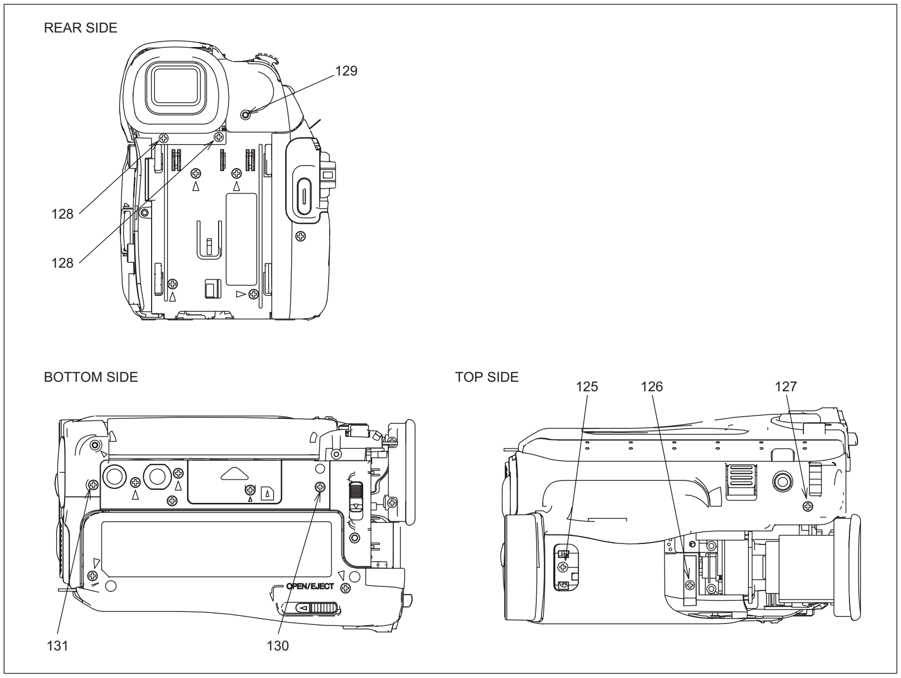
The instruction manual to be provided with this product will differ according to the destination.

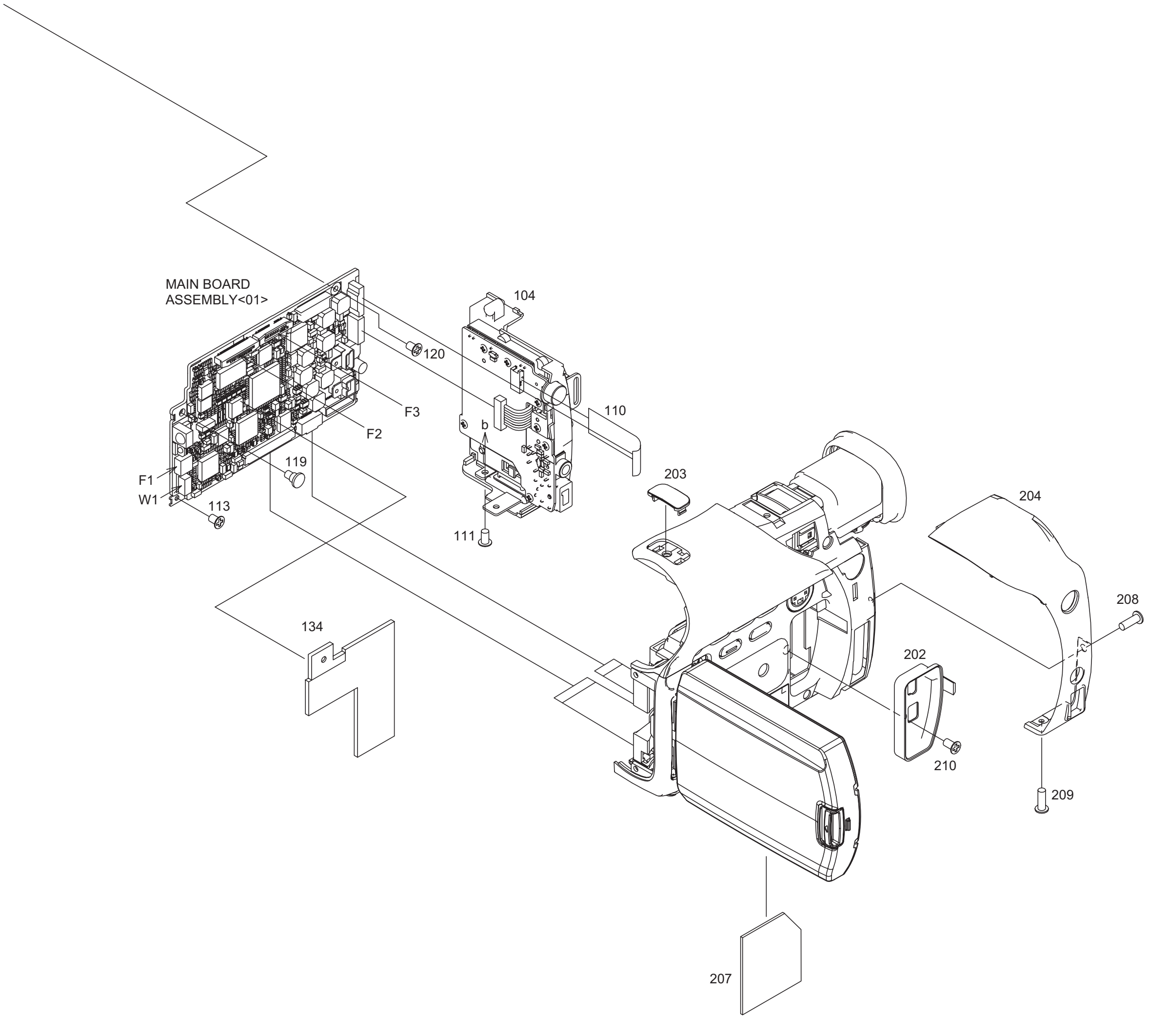

005
099
098
010
007
019
012
009
015
014
013
001
FINAL ASSEMBLY
<M2>
004
003
063
052
051
097
062
061
060
056
002
055
LABEL
(SERIAL)

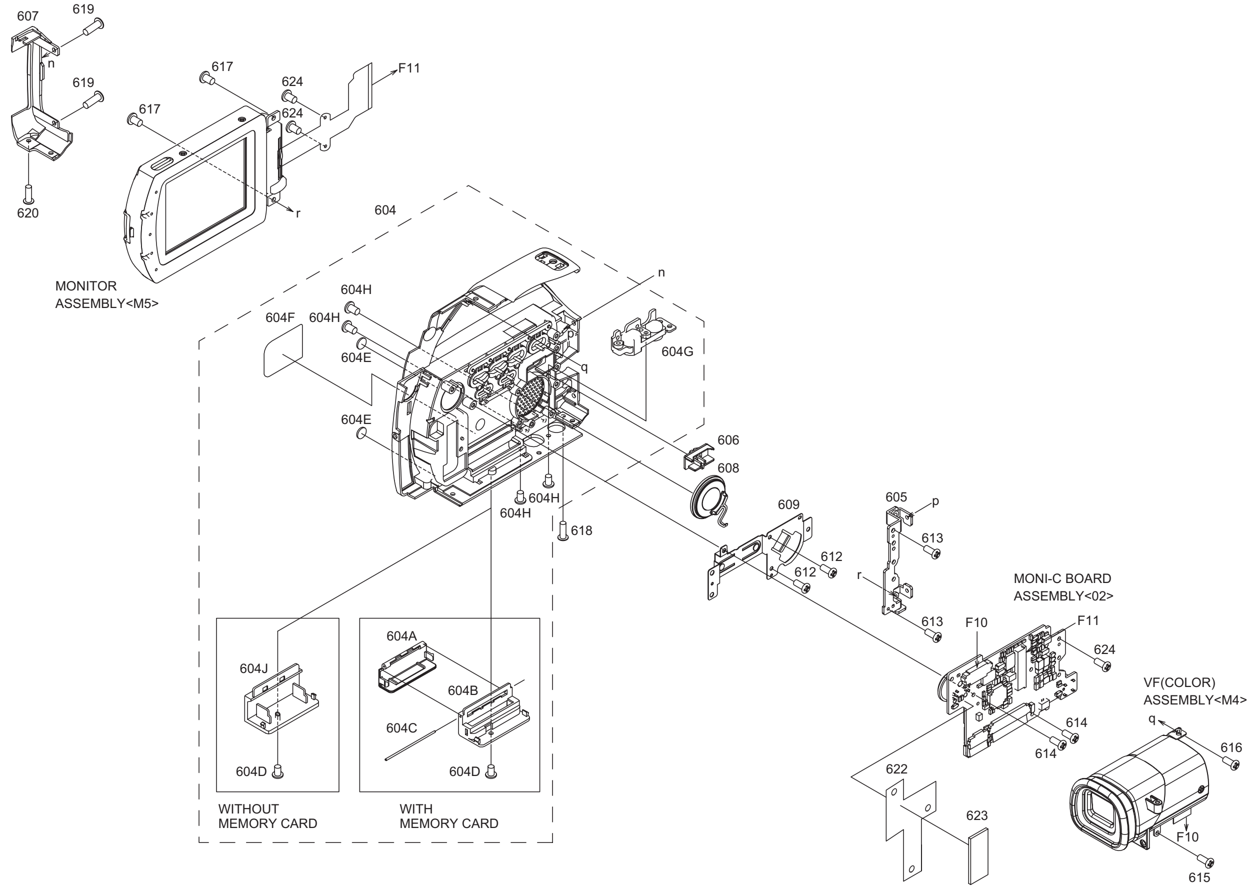
1.2 FINAL ASSEMBLY <M2>

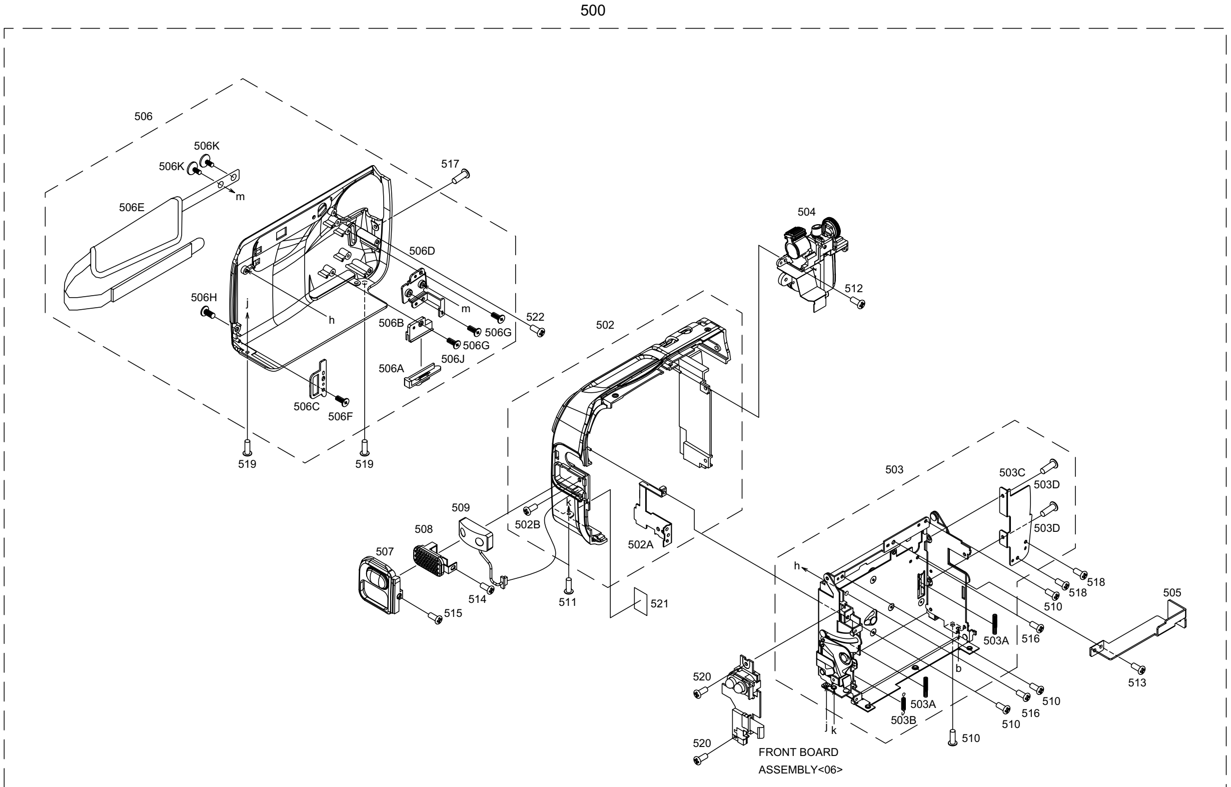


115
114
211
201
105
113
116
116
d
c
113
e
F1
W1
RATING
LABEL
F8
F9
F7
F6
F5
F4
205
MECHANISM
ASSEMBLY<M3>
206
106
106A
121
e
106A
g
121
106A
121
113
F8
F7
F9
F6
F5
F4
123
132
122
122
123
PREMDA BOARD
ASSEMBLY<05>
109
F2
301
301C
301D
301C
301C
301D
301C
301C
301A
301C
301C
301B
301E
CCD BOARD
ASSEMBLY<04>
302
302
306
305
303
304
352
353
F3
103
103D
103B
103D
103D
a
112
103A
103C
124
c
108
f
107
d
f
118
107A
107A
g
107B
a
118
117
133

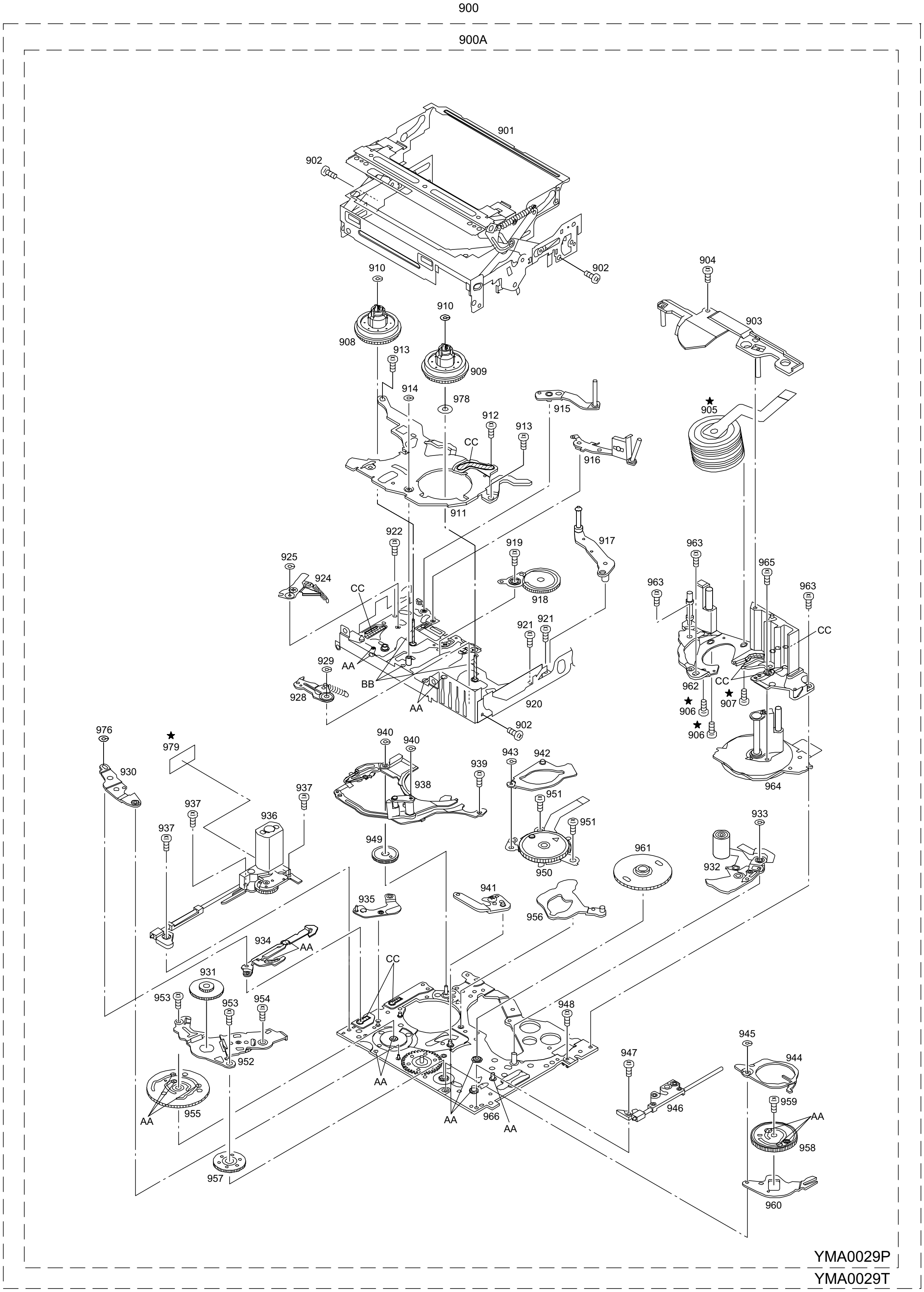

REAR SIDE
BOTTOM SIDE
OPEN/EJECT
TOP SIDE


MAIN BOARD ASSEMBLY<01>
F3
F2
b
F1
W1


607
619
n
619
620
617
617
624
624
F11
r
MONITOR
ASSEMBLY<M5>
604
n
604H
604H
604F
604E
604G
q
604E
606
608
604H
604H
618
609
605
p
613
612
612
r
613
MONI-C BOARD
ASSEMBLY<02>
F10
F11
624
VF(COLOR)
ASSEMBLY<M4>
q
616
614
614
604J
604A
604B
604C
604D
604D
WITHOUT
MEMORY CARD
WITH
MEMORY CARD
622
623
F10
615


506K
506K
m
506H
j
h
m
506G
506G
506J
506F
h
b
j
k
FRONT BOARD
ASSEMBLY<06>

1.3 MECHANISM ASSEMBLY <M3>

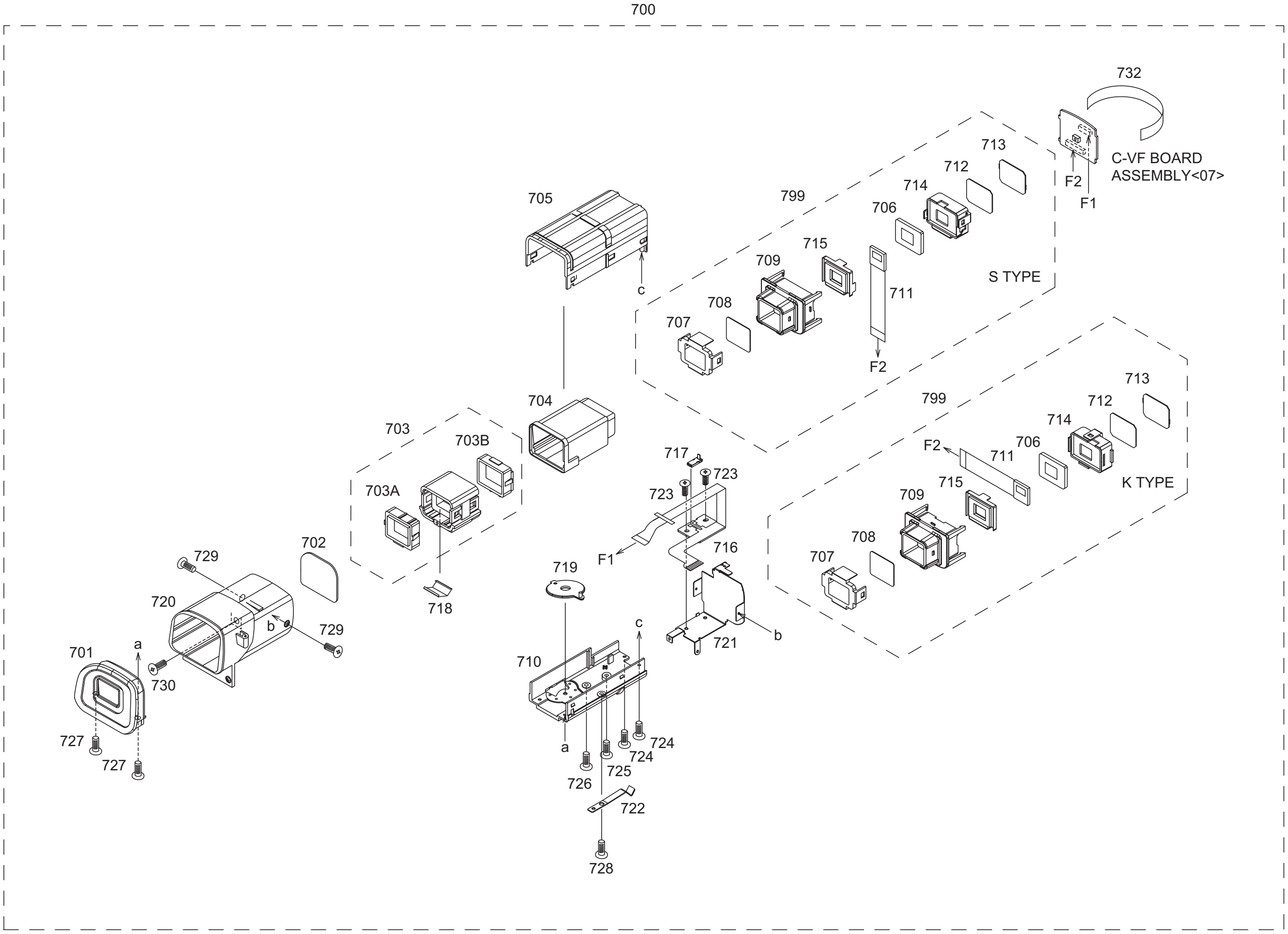

900
900A
901
902
902
910
904
910
903
908
913
909
914
978
915
905
912
913
CC
916
911
922
917
925
919
963
924
965
CC
918
963
963
921
921
CC
929
AA
962
CC
BB
928
906
907
AA
920
906
976
979
902
940
940
943
942
930
939
938
964
951
937
937
951
936
933
937
949
961
950
932
941
935
956
934
AA
CC
931
953
954
953
948
945
952
947
944
AA
946
959
955
AA
966
AA
AA
958
AA
957
960
YMA0029P
YMA0029T

Classification	Part No.	Symbol in drawing
Grease	KYODO-SH-JB	AA
Oil	YTU94027	BB
Grease (HANARL)	RX-410R	CC

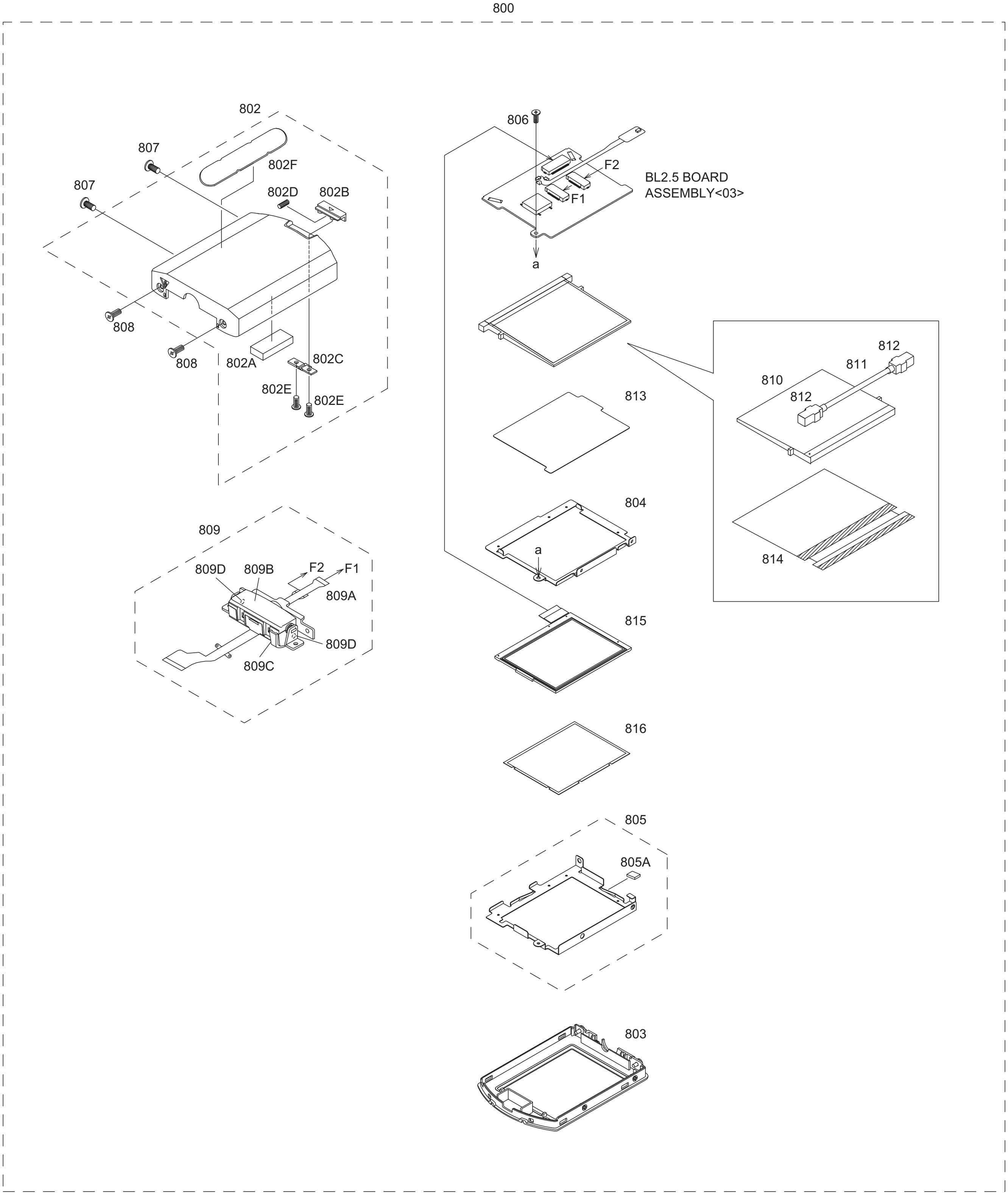
NOTE1: The section marked in AA, BB and CC indicate lubrication and greasing areas.

NOTE2: Mark ★ is not contained in 900A.

1.4 VF (COLOR) ASSEMBLY <M4>


700
732
C-VF BOARD
ASSEMBLY<07>
F2
F1
713
712
714
799
706
705
715
709
711
S TYPE
c
708
707
F2
713
799
712
714
704
F2
706
703
703B
711
K TYPE
717
723
715
709
703A
723
708
F1
716
707
702
719
729
720
718
c
b
729
721
b
701
a
710
730
724
727
a
724
727
726
725
722
728

1.5 MONITOR ASSEMBLY <M5>


800
802
807
802F
807
802D
802B
808
808
802A
802C
802E
802E
806
F2
BL2.5 BOARD
ASSEMBLY<03>
F1
a
812
811
810
812
813
804
a
814
815
809
809D
809B
F2
F1
809A
809D
809C
816
805
805A
803

2. PARTS LIST

PACKING AND ACCESSORY ASSEMBLY <M1>

⚠ Symbol No.	Part No.	Part Name	Description	Local
001	LY30023-029A	POLY BAG	JAPAN	
002	LY33696-002B	PACKING CASE	JAPAN	D33US
002	LY33696-001B	PACKING CASE	JAPAN	D73US
003	LY33697-001C	CUSHION		
004	QPA02503505P	POLY BAG	ACC. 25cm x 35cm	
005	QAM0507-001	A/V CABLE		
007	QAM0538-001	USB CABLE	USB	D73US
009	QQR0491-002	FERRITE CORE	S	
⚠ 010	LY21103-001A	AC ADAPTER	AP-V14U	
⚠ 010	or LY21154-001A	AC ADAPTER	AP-V15U	
012	LY33693-001C	CAP(HOOD)ASSY		
⚠ 013	LY32566-001A	BATTERY PACK ASSY	BN-V408U-B	
014	LY21105-002A	SHOULDER STRAP		
015	LY21020-001A	REMOCON	RM-V718U	D73US
019	QQR0491-002	FERRITE CORE	USB	D73US
051	QPA02003506	POLY BAG	DOCUMENT 20cm x 35cm	
052	LY32210-061A	CD ROM ASSY		D33US
052	LY32210-062A	CD ROM ASSY		D73US
⚠ 055	LYT1196-001A	INST BOOK(EN)	(ENGLISH)	
⚠ 055	LYT1196-002A	INST BOOK(FR)	(FRENCH)	
⚠ 055	LYT1196-003A	INST BOOK(SP)	(SPANISH)	
056	LYT1198-001A	INST BOOK(SOFT.EN)	(SOFT.ENGLISH)	D33US
056	LYT1198-003A	INST BOOK(SOFT.FR)	(SOFT.FRENCH)	D33US
056	LYT1198-005A	INST BOOK(SOFT.SP)	(SOFT.SPANISH)	D33US
056	LYT1197-001A	INST BOOK(SOFT.EN)	(SOFT.ENGLISH)	D73US
056	LYT1197-003A	INST BOOK(SOFT.FR)	(SOFT.FRENCH)	D73US
056	LYT1197-005A	INST BOOK(SOFT.SP)	(SOFT.SPANISH)	D73US
060	BT-51005-6	WARRANTY INF.		
061	BT-51034-1	REGIST CARD		
062	BT-52006-2	WARRANTY CARD		
063	LY32210-043A	CD ROM ASSY		
097	LYT1196-004A	SHEET(CORRECT.)		
098	LY34145-001B	COVER1(DC PLUG)		
099	LY34146-001B	COVER2(DC PLUG)		

FINAL ASSEMBLY <M2>

⚠ Symbol No.	Part No.	Part Name	Description	Local
103	LY21086-003C	FRONT COVER ASSY		
103A	LY33664-001A	HOOD(SCREW)		
103B	LY33665-001B	BRACKET(HOOD)		
103C	LY33666-001B	WINDOW(IR)		
103D	LY30031-003A	SPECIAL SCREW	BKT-SCREW(x3)	
⚠ 104	LY21088-001C	REAR UNIT ASSY		
105	LY33672-001C	COVER(ZOOM)		
106	LY33673-001B	BRACKET(MECHA)ASSY		
106A	LY42796-003A	BUSH	(x3)	
107	LY33674-001B	BRACKET(OP 1)ASSY		
107A	LY30030-0Y9A	SPACER(A)	(x2)	
107B	LY44376-001A	RUBBER(OP)		
108	LY33676-001B	BRACKET(OP 2)		
109	QUQ105-24X8AA	FPC WIRE	OP-MAIN FF	
110	QUQ105-1202AA	FFC WIRE	MAIN-R FFC	
111	LY30031-0E1A	SPECIAL SCREW	RC-BKARM	
112	LY30031-010A	SPECIAL SCREW	BKHO-BKOP	
113	LY30031-0D4A	SPECIAL SCREW	BKME-BKAR(x4)	
114	LY30031-010A	SPECIAL SCREW	LC-BKOP2	
115	LY30031-010A	SPECIAL SCREW	LC-BKOP1	
116	LY30031-003A	SPECIAL SCREW	HOLZ-LC(x2)	
117	LY30031-011A	SPECIAL SCREW	BKOP-OP	
118	LY30031-010A	SPECIAL SCREW	BKOP-BKME(x2)	
119	LY30032-001A	SPECIAL SCREW	MAIN-BKME	
120	LY30033-001A	SPECIAL SCREW(W)	MAIN-BKME	
121	LY30032-002A	SPECIAL SCREW	BKME-ME(x3)	
122	LY30031-015A	SPECIAL SCREW	PRE-ME(x2)	
123	LY30033-001A	SPECIAL SCREW(W)	MDA-BKME(x2)	
124	LY30031-010A	SPECIAL SCREW	OP1-OP2	
125	LY30031-010A	SPECIAL SCREW	UC-OP1	
126	LY30031-010A	SPECIAL SCREW	UC-OP2	
127	LY30031-021A	SPECIAL SCREW	LC-VF	
128	LY30031-021A	SPECIAL SCREW	VF-RC(x2)	

⚠ Symbol No.	Part No.	Part Name	Description	Local
129	LY30031-028A	SPECIAL SCREW	LC-ZOOM	
130	LY30031-010A	SPECIAL SCREW	UC-BKSP	
131	LY30031-006A	SPECIAL SCREW	COVHI-BKSP	
132	LY33388-002A	SHIELD COVER(PR)		
133	LY44553-001A	SHEET(OP1)	EMC	D33US
134	LY44550-001A	SHEET(MA1)	EMC	D33US
201	LY33677-001C	COVER(ADJUST)		
202	LY33678-002B	COVER(JIG)		D33US
202	LY33678-001B	COVER(JIG)		D73US
203	LY33699-001A	ORNAMENT(TOP)		
204	LY21085-002B	COVER(UPPER)		
205	LY40699-002A	LABEL(PUSH)		
206	LY32001-004A	LABEL(HOUSING)		
207	QAM0404-002	MEMORY CARD	MMC 8MB*	D73US
208	LY30031-008A	SPECIAL SCREW	COVUP-RC	
209	LY30031-008A	SPECIAL SCREW	COVUP-UC	
210	LY30031-010A	SPECIAL SCREW	JIG	
211	LY30031-032A	SPECIAL SCREW	ADJ	
301	LY33085-003A	OP BLOCK ASSY		
301A	LY30724-001B	FOCUS MOTOR UNIT		
301B	LY30723-001B	ZOOM MOTOR UNIT		
301C	PTY33085-001	TAPPING SCREW	(x7)	
301D	PTY31727-116	TAPPING SCREW	(x2)	
301E	PTY33085-006	AUTO IRIS UNIT		
302	LY30018-0E7A	SPECIAL SCREW	(x2)	
303	LY44005-001A	SHEET		
304	LY44120-001A	OPTICAL LPF		
305	LY33288-001A	SPACER		
306	LYH30514-001A	CCD BASE ASSY		
352	LY44554-001A	BUSTERAID	EMC	
353	LY30030-061A	SPACER(A)	EMC	

***NOTE:**
DATA FILE is not contained in MEMORY CARD of the service part.

UPPER ASSEMBLY <M2>

⚠ Symbol No.	Part No.	Part Name	Description	Local
⚠ 604	LY21084-007C	UPPER CASE ASSY		D33US
⚠ 604	LY21084-006C	UPPER CASE ASSY		D73US
604A	LY33662-001D	COVER(SD)		D73US
604B	LY33663-001C	HOLDER(SD)		D73US
604C	LY44374-001A	SHAFT(SD)		D73US
604D	LY30031-007A	SPECIAL SCREW	HOLDSD-UC	
604E	LY42350-003A	FOOT	(x2)	
604F	LY33657-002A	CAUTION LABEL(VF)		
604G	LY33658-001B	BASE		
604H	LY30031-006A	SPECIAL SCREW	UC-BASE(x4)	
604J	LY33656-001B	COVER(DUMMY)		D33US
605	LY33659-001C	BRACKET(HINGE)		
606	LY33679-001D	KNOB(SLIDE)	SW	D73US
607	LY33660-001B	COVER(HINGE)		
608	QAS0157-001	SPEAKER		
609	LY33661-001A	BRACKET(SPK)		
612	LY30031-003A	SPECIAL SCREW	BKTSPK-UC(x2)	
613	LY30031-003A	SPECIAL SCREW	BKTHIN-UC(x2)	
614	LY30031-008A	SPECIAL SCREW	M.PWB-UC(x2)	
615	LY30031-008A	SPECIAL SCREW	VF-UC	
616	LY30031-002A	SPECIAL SCREW	VF-UC	
617	LY30031-009A	SPECIAL SCREW	HIN-BKTHIN(x2)	
618	LY30031-006A	SPECIAL SCREW	UC-BKTHIN	
619	LY30031-006A	SPECIAL SCREW	COVHIN-BKT(x2)	
620	LY30031-002A	SPECIAL SCREW	COVHIN-UC	
622	LY44555-001A	SHEET(MO)	MONI_C PWB	
623	LY30030-0Z3A	SPACER(A)		
624	LY30031-038A	SPECIAL SCREW	M.PCB-UC(x3)	

LOWER ASSEMBLY <M2>

⚠ Symbol No.	Part No.	Part Name	Description	Local
500	LU04D102E	LOWER UNIT ASSY		
502	LY21078-002C	LOWER CASE ASSY		
502A	LY33639-001A	SHIELD PLATE(MIC)		
502B	LY30031-016A	SPECIAL SCREW	LC-SHLD	
503	LY21079-001D	ARM ASSY		
503A	LY30002-046B	COMPRESION SPRING	(x2)	
503B	LY43973-001A	TENSION SPRING		
503C	LY33641-001A	BRACKET(REAR)		
503D	LY30031-001A	SPECIAL SCREW	BKTR-ARM(x2)	
504	LY10467-001A	ZOOM UNIT		
505	LY33642-001B	BRACKET(ZOOM)		
506	LY21082-002B	CASSETTE COVER ASSY		
506A	LY33643-001D	KNOB(LOCK)C		
506B	LY33644-001A	HOLDER(LOCK)C		
506C	LY33645-001C	HOOK(G.BELT)		
506D	LY33647-001B	BRACKET(G.BELT)		
506E	LY21083-002A	GRIP BELT		
506F	LY30031-002A	SPECIAL SCREW	C.COV-HOOK	
506G	QYSLSF2040RA	TAP SCREW	C.CO-BKT(G(x2)	
506H	LY30031-029A	SPECIAL SCREW	C.CO-BKT(G	
506J	LY30031-003A	SPECIAL SCREW	C.CO-KNOB	
506K	LY30031-004A	SPECIAL SCREW	BKT(GB-GB(x2)	
507	LY33648-001C	COVER(MIC)ASSY		
508	LY33651-001A	PLATE(MIC)		
509	LY33965-001A	MIC		
510	LY30031-003A	SPECIAL SCREW	BKARM-L.C(x4)	
511	LY30031-0D9A	SPECIAL SCREW	LC-BKARM	
512	LY30031-003A	SPECIAL SCREW	ZOO-L.C	
513	LY30031-003A	SPECIAL SCREW	BKZO-LC	
514	LY30031-005A	SPECIAL SCREW	PLTM-SHLD	
515	LY30031-005A	SPECIAL SCREW	COVM-SHLD	
516	LY30031-037A	SPECIAL SCREW	ARM-CAS(x2)	
517	LY30031-021A	SPECIAL SCREW	POW-CAS	
518	LY30031-003A	SPECIAL SCREW	BKRE-CAS(x2)	
519	LY30031-0D8A	SPECIAL SCREW	CAS-ARM(x2)	
520	LY30031-0D9A	SPECIAL SCREW	FPWB-BKARM(x2)	
521	LY30030-0Y4A	SPACER(A)		
522	LY30031-003A	SPECIAL SCREW	POW-CAS	

MECHANISM ASSEMBLY <M3>

⚠ Symbol No.	Part No.	Part Name	Description	Local
900	YMA0029T	MECHA(A)ASSY	Y/E Y07442	
900A	YMA0029P	MECHA(A)ASSY	JVM/BJVC	
901	LY32870-001P	CASSETTEHOUSING ASSY		
902	YQ43893-8	MINI SCREW	(x3)	
903	LYH30420-001A	UPPER BASE ASSY		
904	QYSPSPU1425M	SCREW	M1.4 x 2.5mm	
905	YDV2102B	DRUM ASSY	M/B SET022	
906	LY42820-001A	DAMP.SCREW ASSY	JVM/BJVC(x2)	
907	LY42820-002A	DAMP.SCREW ASSY	JVM/BJVC	
908	LY31538-001F	REEL DISK ASSY		
909	LY31538-002H	REEL DISK ASSY		
910	YQ44246	SLIT WASHER	(x2)	
911	LY10372-001H	REEL COVER ASSY		
912	LY42120-002A	MINI SCREW		
913	LY41945-003A	MINI SCREW	(x2)	
914	YQ44246	SLIT WASHER		
915	LY43725-001F	TENSION ARM ASSY		
916	LYH40269-001A	SLANT POLE ARM ASSY		
917	LY43731-001F	TU ARM ASSY		
918	LY31531-001E	SWING ARM ASSY		
919	YQ43893-9	MINI SCREW		
920	LYH30424-001A	SLIDE DECK FINAL ASSY		
921	YQ43893	MINI SCREW	(x2)	
922	LY43023-001A	MINI SCREW		
924	LYH30419-001A	PAD ARM ASSY		
925	YQ44246	SLIT WASHER		
928	LYH40270-001A	TU BRAKE ASSY		
929	YQ44246	SLIT WASHER		
930	LY43684-001B	TENSION CONTROL LEVER ASSY		
931	LY32861-001A	CENTER GEAR		
932	LY31516-001H	PINCH ROLLER ARM FINAL ASSY		
933	YQ44246	SLIT WASHER		
934	LY43681-001A	TENSION CONTROL PLATE ASSY		
935	LY43687-001A	BRAKE CONTROL LEVER ASSY		
936	LYH30421-001A	MOTOR BRACKET ASSY		
937	YQ43893	MINI SCREW	(x3)	
938	LYH30422-001A	GUIDE RAIL ASSY		
939	YQ43893	MINI SCREW		
940	YQ44246	SLIT WASHER	(x2)	
941	LY32843-001D	SLIDE LEVER2 ASSY		
942	LY43690-001A	LOADING PLATE ASSY		
943	YQ44246	SLIT WASHER		
944	LY32858-001B	EJECT LEVER		
945	YQ44246	SLIT WASHER		
946	LYH40271-001A	BASE R ASSY		
947	YQ43893	MINI SCREW		
948	LY41945-001B	MINI SCREW		
949	LY43665-001A	MODE GEAR		
950	QSW0876-004	ROTARY ENCODER		
951	YQ43893	MINI SCREW	(x2)	
952	LY32860-001C	GEAR COVER ASSY		
953	YQ43893	MINI SCREW	(x2)	
954	YQ43893-4	MINI SCREW		
955	LY43676-001A	MAIN CAM ASSY		
956	LY41941-001B	SLIDE ARM ASSY		
957	LY43678-001A	CONNECT GEAR 2		
958	LY43679-001B	SUB CAM ASSY		
959	LY42120-001A	MINI SCREW		
960	LY43692-001A	CONTROL ARM ASSY		
961	LY32859-001A	REEL GEAR 1		
962	LY31508-004D	DRUM BASE ASSY		
963	QYSPSPU1425M	MINI SCREW	(x3)	
964	QAR0142-001	CAPSTAN MOTOR		
965	YQ43893	MINI SCREW		
966	LY10367-001K	MAIN DECK ASSY		
976	YQ44246	SLIT WASHER		
978	LY42047-005A	WASHER		
979	LY44502-001A	SPACER	JVM/BJVC	

VF(COLOR) ASSEMBLY <M4> [S TYPE]

NOTE :

There are two types of VF(COLOR) ASSEMBLY used for this model: S type and K type.
For methods to distinguish the two types, see Cover Page.

⚠ Symbol No.	Part No.	Part Name	Description	Local
700	VU04D101C	VF UNIT ASSY		
701	LY33690-001C	EYE CUP		
702	LY43961-001B	SHEET(LENS)		
703	LY32472-001A	LENS ASSY		
703A	LY43356-001A	LENS(A)		
703B	LY43357-001A	LENS(B)		
704	LY33688-001A	GUIDE LENS(VF)		
705	LY21095-001C	UPPER CASE(VF)		
706	LY43960-001A	CUSHION 2(LCD)		
707	LY32997-001A	SHEET HOLD(VF)		
708	LY43953-001A	SHEET 1(POLA)		
709	LY33003-001C	HOLDER LCD2(VF)		
710	LY21094-001C	BOTTOM CASE(VF)		
711	QLD0266-001	LCD MODULE		
712	LY43954-001A	SHEET 2(POLA)		
713	LY43959-001A	SHEET 2(DIFF)		
714	LY33004-001A	LCD HOLD 2(VF)		
715	LY33047-001A	GUIDE(LCD)2		
716	QAL0523-001	FPC	VF-FPC	
717	NSW0200-001X	LEVER SWITCH	TEZUKE	
718	LY43868-001A	SPRING(LENS)		
719	LY33689-001C	LEVER(LENS)		
720	LY21096-001C	HOLDER(VF)		
721	LY33691-001A	BRACKET(VF)		
722	LY33692-001A	SPRING(VF)		
723	LY30031-016A	SPECIAL SCREW	PWB-BKT(x2)	
724	LY30031-031A	SPECIAL SCREW	BC-UC(x2)	
725	LY30031-030A	SPECIAL SCREW	BC-HLDLCD	

⚠ Symbol No.	Part No.	Part Name	Description	Local
726	LY30031-031A	SPECIAL SCREW	BC-GUID	
727	LY30032-005A	SPECIAL SCREW	EYE-GUID(x2)	
728	LY30031-026A	SPECIAL SCREW	SPR-LC	
729	LY30031-016A	SPECIAL SCREW	HLDVF-BKT(x2)	
730	LY30031-010A	SPECIAL SCREW	HLDVF-BKT	
732	LY30030-0Y5A	SPACER(A)		
799	LY33722-001A	LCD UNIT(COLOR)ASSY		

VF(COLOR) ASSEMBLY <M4> [K TYPE]

NOTE :

There are two types of VF(COLOR) ASSEMBLY used for this model: S type and K type.

For methods to distinguish the two types, see Cover Page.

⚠ Symbol No.	Part No.	Part Name	Description	Local
700	VU04D102A	VF UNIT ASSY		
701	LY33690-001C	EYE CUP		
702	LY43961-001B	SHEET(LENS)		
703	LY32472-001A	LENS ASSY		
703A	LY43356-001A	LENS(A)		
703B	LY43357-001A	LENS(B)		
704	LY33688-001B	GUIDE LENS(VF)		
705	LY21095-001C	UPPER CASE(VF)		
706	LY43957-001A	CUSHION(LCD)		
707	LY32997-001A	SHEET HOLD(VF)		
708	LY43953-001A	SHEET 1(POLA)		
709	LY32994-001B	HOLDER LCD(VF)		
710	LY21094-001D	BOTTOM CASE(VF)		
711	QLD0306-001	LCD MODULE		
712	LY43954-001A	SHEET 2(POLA)		
713	LY43955-001A	SHEET (DIFF)		
714	LY32998-001A	LCD HOLD(VF)		
715	LY33002-001B	GUIDE(LCD)		
716	QAL0523-001	FPC	VF-FPC	
717	NSW0200-001X	LEVER SWITCH	TEZUKE	
718	LY43868-001A	SPRING(LENS)		
719	LY33689-001C	LEVER(LENS)		
720	LY21096-001C	HOLDER(VF)		
721	LY33691-001A	BRACKET(VF)		
722	LY33692-001A	SPRING(VF)		
723	LY30031-016A	SPECIAL SCREW	PWB-BKT(x2)	
724	LY30031-031A	SPECIAL SCREW	BC-UC(x2)	
725	LY30031-030A	SPECIAL SCREW	BC-HLDLCD	
726	LY30031-031A	SPECIAL SCREW	BC-GUID	
727	LY30032-005A	SPECIAL SCREW	EYE-GUID(x2)	
728	LY30031-026A	SPECIAL SCREW	SPR-LC	
729	LY30031-016A	SPECIAL SCREW	HLDVF-BKT(x2)	
730	LY30031-010A	SPECIAL SCREW	HLDVF-BKT	
732	LY30030-0Y5A	SPACER(A)		
799	LY33821-001A	LCD UNIT ASSY		

MONITOR ASSEMBLY <M5>

⚠ Symbol No.	Part No.	Part Name	Description	Local
⚠ 800	MU04D103E	MONITOR UNIT ASSY		D73US
⚠ 800	MU04D104E	MONITOR UNIT ASSY		D33US
⚠ 802	LY21092-003F	MONITOR COVER ASSY		D73US
⚠ 802	LY21092-004F	MONITOR COVER ASSY		D33US
802A	LY30030-0Z1B	SPACER(A)		
802B	LY33680-001B	KNOB(LOCK)M		
802C	LY33681-001B	HOLDER(LOCK)M		
802D	LY30002-022A	COMPRESION SPRING		
802E	LY30031-008A	SPECIAL SCREW	(x2)	
802F	LY44428-001C	POP STICKER(1)		
803	LY10471-001C	MONITOR CASE		
804	LY33683-001A	LCD FRAME(MONI)		
805	LY33969-001A	SHIELD CASE ASSY		
805A	LY30030-0Z8A	SPACER(A)	FOR S.CASE	
806	LY30033-001A	SPECIAL SCREW(W)	M.PWB-S.C	
807	LY30031-0E2A	SPECIAL SCREW	MCOV-MCAS(x2)	
808	LY30031-013A	SPECIAL SCREW	MCOV-HING(x2)	
809	LY33685-001B	MONITOR HINGE ASSY		
809A	QAL0522-001	FPC	MONI-FPC	
809B	LY33686-001B	HINGE COVER(U)		
809C	LY33687-001B	HINGE COVER(L)		
809D	LY30018-0K1A	SPECIAL SCREW	HINC.U-L(x2)	D33US
809D	LY30031-014A	SPECIAL SCREW	HINC.U-L(x2)	D73US
810	LY44481-001A	LIGHT SCREEN		
811	QLL0142-001	LAMP		
812	LY43936-001A	HOLDER(LAMP)	(x2)	
813	LY33684-001A	SHEET(DIFF.)		
814	LY43396-001A	SHEET(REFLECT)		
815	QLD0294-001	LCD MODULE		
816	LY44495-001D	SHEET(MONI.)		

MAIN BOARD ASSEMBLY <01>

⚠ Symbol No.	Part No.	Part Name	Description	Local
PW1	YB10444C-02	MAIN BOARD ASSY		D73US
PW1	YB10449A-01	MAIN BOARD ASSY		D33US
IC1001	MN103S33NJP	IC(MICRO C ROM)	MASK	
IC1001 or	MN103SF33NY4JP	IC(MICRO C ROM)	FLASH	
IC1002	MB90097PFV149-X	IC(MICRO C ROM)	MB90099	
IC1003	SN74AHC1G00K-X	IC		
IC1003 or	SN74AHC1G00DC-X	IC		
IC1004	NJU7108F3-X	IC		
IC1005	X25330S8I-2.5-X	IC		
IC1005 or	AT25320N-10SI-X	IC	ATMEL	
IC1005 or	M95320-WMN6W-X	IC	ST MICRO	
IC1005 or	CAT25C32SI-X	IC	CATALYST	
IC1006	RS5C314-X	IC		
IC1007	IC-PST3423U-X	IC		
IC1007 or	S-80823CNNB-X	IC		
IC1101	BA10358F-XE	IC	W/B SENS	
IC1101 or	LM358DR-X	IC	W/B SENS	
IC1151	RPM7138	IR DETECT UNIT	IR SENS	
IC1151 or	RPM7138-S	IR DETECT UNIT	IR SENS	
IC2101	AK5355VT-X	IC		D73US
IC2201	AK4564VQ	IC		
IC3001	JCY0152	IC	JCY0152	
IC3002	BU2501FV-X	IC		
IC3005	JCY0136-X	IC	JCY0136-X	
IC3201	JCP8075	IC		
IC3701	BA7665AFS-X	IC		
IC3731	MM1504XN-X	IC	MM1504	D73US
IC4201	HD49340NP-X	IC		
IC4202	MM1613AN-X	IC		
IC4301	JCY0200	IC		
IC4802	LM324PW-X	IC	HALL AMP	
IC4804	LM358AD-X	IC	DRIVE AMP	
IC4804 or	LM358AD623-X	IC	DRIVE AMP	
IC4807	SN74AHC2G66U-X	IC	DUMP CUT	D73US
IC4851	UPD16879GS-X	IC	F/Z_MDA	
IC5501	JCY0185	IC		
IC6001	FA3698F	IC		
IC6801	R1224N102G-X	IC		
IC8001	TMS320DSC24GHKL	IC	DSC24	D73US
IC8002	K4S643232F-TC60	IC	SDRAM	D73US
IC8002 or	HY57643220CT55	IC	SDRAM	D73US
IC8002 or	HY57643220CT7	IC	SDRAM	D73US
IC8003	MR27T1602F14DTN	IC(MICRO C ROM)	WRITE ONCE	D73US
IC8004	S-80842CNNB-W	IC	USB DET	D73US
IC8006	BU2360FV-X	IC	A.VCO W	D73US
IC8301	ISP1181ABS	IC	USB DRV	D73US
Q1001	DTA114EE-X	DIGI TRANSISTOR		
Q1001 or	PDTA114EE-X	DIGI TRANSISTOR		
Q1001 or	RN2102-X	DIGI TRANSISTOR		
Q1001 or	BCR183T-X	DIGI TRANSISTOR		
Q1002	UMC3N-W	DIGI TRANSISTOR		
Q1003	UMC3N-W	DIGI TRANSISTOR		
Q1004	UMC3N-W	DIGI TRANSISTOR		
Q1005	DTC143XE-X	DIGI TRANSISTOR		

⚠	Symbol No.	Part No.	Part Name	Description	Local
	Q1006	DTC144EE-X	DIGI TRANSISTOR		
	Q1006	or UN9213J-X	DIGI TRANSISTOR		
	Q1006	or RN1104-X	DIGI TRANSISTOR		
	Q1006	or PDTC144EE-X	DIGI TRANSISTOR		
	Q1007	2SC4617/QR/-X	TRANSISTOR		
	Q1007	or BC847BT-X	TRANSISTOR		
	Q1008	DTC124EE-X	DIGI TRANSISTOR		
	Q1008	or PDTC124EE-X	DIGI TRANSISTOR		
	Q1008	or BCR141T-X	DIGI TRANSISTOR		
	Q1009	2SJ347-X	MOS FET		
	Q1010	DTC144EE-X	DIGI TRANSISTOR		
	Q1010	or UN9213J-X	DIGI TRANSISTOR		
	Q1010	or RN1104-X	DIGI TRANSISTOR		
	Q1010	or PDTC144EE-X	DIGI TRANSISTOR		
	Q1101	RPM-22PB	PHOTO TRANSISTOR		
	Q2202	UMX1N-W	PAIR TRANSISTOR		
	Q2202	or BC847S-X	PAIR TRANSISTOR		
	Q2401	2SC4617/QR/-X	TRANSISTOR		
	Q2401	or BC847BT-X	TRANSISTOR		
	Q2403	2SC4617/QR/-X	TRANSISTOR		
	Q2403	or BC847BT-X	TRANSISTOR		
	Q3001	2SC4617/RS/-X	TRANSISTOR		
	Q3001	or BC847BT-X	TRANSISTOR		
	Q3002	2SC4617/RS/-X	TRANSISTOR		
	Q3002	or BC847BT-X	TRANSISTOR		
	Q3701	UMT1N-W	PAIR TRANSISTOR		
	Q3701	or XP4401-W	TRANSISTOR		
	Q3701	or BC856S-X	PAIR TRANSISTOR		
	Q3702	BC847PN-X	PAIR TRANSISTOR		
	Q3704	2SA1774/RS/-X	TRANSISTOR		
	Q3704	or BC857BT-X	TRANSISTOR		
	Q3705	UMT1N-W	PAIR TRANSISTOR		
	Q3705	or XP4401-W	TRANSISTOR		
	Q3705	or BC856S-X	PAIR TRANSISTOR		
	Q3731	2SC4617/RS/-X	TRANSISTOR		D73US
	Q3731	or 2SD2216J/RS/-X	TRANSISTOR		D73US
	Q3731	or BC847BT-X	TRANSISTOR		D73US
	Q3732	DTC144EE-X	DIGI TRANSISTOR		D73US
	Q3732	or UN9213J-X	DIGI TRANSISTOR		D73US
	Q3732	or BCR148T-X	DIGI TRANSISTOR		D73US
	Q3733	BC847PN-X	PAIR TRANSISTOR		D73US
	Q3734	2SC4617/RS/-X	TRANSISTOR		D73US
	Q3734	or 2SD2216J/RS/-X	TRANSISTOR		D73US
	Q3734	or BC847BT-X	TRANSISTOR		D73US
	Q3735	BC847PN-X	PAIR TRANSISTOR		D73US
	Q4801	2SC4655/BC/-X	TRANSISTOR	HALL DRIVE	
	Q4802	2SC4617/RS/-X	TRANSISTOR	2SC4617/RS	D73US
	Q4802	or BC847BT-X	TRANSISTOR		D73US
	Q4802	or 2SD2216J/RS/-X	TRANSISTOR		D73US
	Q4803	DTC144EE-X	DIGI TRANSISTOR	DTC144EE	D73US
	Q4803	or BCR148T-X	DIGI TRANSISTOR		D73US
	Q4804	DTA144EE-X	DIGI TRANSISTOR	DTA144EE	D73US
	Q4804	or BCR198T-X	DIGI TRANSISTOR		D73US
	Q4805	DTA143EE-X	DIGI TRANSISTOR	DTA143EE	D73US
	Q4805	or BCR162T-X	DIGI TRANSISTOR		D73US
	Q4806	2SC4617/QR/-X	TRANSISTOR	2SC4617/QR	
	Q4806	or BC847BT-X	TRANSISTOR		
	Q4806	or 2SD2216J/RS/-X	TRANSISTOR	2SD2216J/R	D73US
	Q4851	2SC4617/RS/-X	TRANSISTOR		
	Q4851	or BC847BT-X	TRANSISTOR		
	Q6101	QS6U24-W	MOS FET		
	Q6102	2SA1577/QR/-X	TRANSISTOR		
	Q6102	or BC807-25W-X	TRANSISTOR		
	Q6201	QS6U24-W	MOS FET		
	Q6301	QS6U24-W	MOS FET		
	Q6302	2SA1577/QR/-X	TRANSISTOR		
	Q6302	or BC807-25W-X	TRANSISTOR		
	Q6303	2SC4617/QR/-X	TRANSISTOR		
	Q6303	or BC847BT-X	TRANSISTOR		
	Q6401	QS6U24-W	MOS FET		
	Q6501	QS6U24-W	MOS FET		
	Q6601	SSM3J14T-X	MOS FET		
	Q6603	2SA1577/QR/-X	TRANSISTOR		
	Q6603	or BC807-25W-X	TRANSISTOR		
	Q6604	DTC144EE-X	DIGI TRANSISTOR		
	Q6604	or BCR148T-X	DIGI TRANSISTOR		
	Q6605	UMT1N-W	PAIR TRANSISTOR		

⚠	Symbol No.	Part No.	Part Name	Description	Local
	Q6605	or HN1A01FU/G/-X	PAIR TRANSISTOR		
	Q6605	or BC856S-X	PAIR TRANSISTOR		
	Q6606	2SC4617/QR/-X	TRANSISTOR		
	Q6606	or BC847BT-X	TRANSISTOR		
	Q6701	SSM3J14T-X	MOS FET		
	Q6801	FML9-W	TRANSISTOR		
	Q8002	2SA1774/QR/-X	TRANSISTOR	USB DET W	D73US
	Q8002	or BC857BT-X	TRANSISTOR		D73US
	D1001	DA221-X	DIODE ARRAY		
	D1001	or MA133-X	SI DIODE		D73US
	D3001	EC2C01C-TR-X	VARI CAP DIODE		
	D3002	EC2C01C-TR-X	VARI CAP DIODE		
	D3003	EC2C01C-TR-X	VARI CAP DIODE		
	D3004	BAT165-X	SB DIODE		
	D4301	MA2Z748-X	SB DIODE		
	D5501	BAS16-03W-X	SI DIODE		
	D6601	RB481K-X	SB DIODE		
	D6602	RB480Y-W	SB DIODE		
	D6701	RB160M-30-X	SB DIODE		
	D6702	RB160M-30-X	SB DIODE		
⚠	D6801	RB715F-X	SB DIODE		
⚠	D6801	or BAS40-05W-X	SB DIODE		
	D8001	BAS170W-X	SB DIODE	USB DET	D73US
	C1001	NDCA1HJ-4R0W	C CAPACITOR	4pF 50V J	
	C1002	NDCA1HJ-4R0W	C CAPACITOR	4pF 50V J	
	C1004	NCFA1AZ-104W	C CAPACITOR	0.1uF 10V Z	
	C1005	NCFA1AZ-104W	C CAPACITOR	0.1uF 10V Z	
	C1007	NCFA1AZ-104W	C CAPACITOR	0.1uF 10V Z	
	C1008	NCFA1AZ-104W	C CAPACITOR	0.1uF 10V Z	
	C1009	NCFA1AZ-104W	C CAPACITOR	0.1uF 10V Z	
	C1010	NCFA1AZ-104W	C CAPACITOR	0.1uF 10V Z	
	C1011	NCFA1AZ-104W	C CAPACITOR	0.1uF 10V Z	
	C1012	NCFA1AZ-104W	C CAPACITOR	0.1uF 10V Z	
	C1013	NCFA1AZ-104W	C CAPACITOR	0.1uF 10V Z	
	C1014	NCFA1AZ-104W	C CAPACITOR	0.1uF 10V Z	
	C1015	NCFA1AZ-104W	C CAPACITOR	0.1uF 10V Z	
	C1019	NCFA1HZ-103W	C CAPACITOR	0.01uF 50V Z	
	C1020	NCBA1EK-682W	C CAPACITOR	6800pF 25V K	
	C1021	NCBA1EK-682W	C CAPACITOR	6800pF 25V K	
	C1022	NCFA1HZ-103W	C CAPACITOR	0.01uF 50V Z	
	C1024	NCFA1HZ-103W	C CAPACITOR	0.01uF 50V Z	
	C1025	NCFA1HZ-103W	C CAPACITOR	0.01uF 50V Z	
	C1029	NCFA1HZ-103W	C CAPACITOR	0.01uF 50V Z	
	C1030	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
	C1032	NCFA1HZ-103W	C CAPACITOR	0.01uF 50V Z	
	C1035	NCFA1HZ-103W	C CAPACITOR	0.01uF 50V Z	
	C1036	NCFA1AZ-104W	C CAPACITOR	0.1uF 10V Z	
	C1037	NCFA1HZ-103W	C CAPACITOR	0.01uF 50V Z	
	C1038	NCFA1HZ-103W	C CAPACITOR	0.01uF 50V Z	
	C1039	NCFA1HZ-103W	C CAPACITOR	0.01uF 50V Z	
	C1040	NDCA1HJ-100W	C CAPACITOR	10pF 50V J	
	C1041	NCFA1AZ-104W	C CAPACITOR	0.1uF 10V Z	
	C1042	NCFA1AZ-104W	C CAPACITOR	0.1uF 10V Z	
	C1043	NCFA1AZ-104W	C CAPACITOR	0.1uF 10V Z	
	C1044	NDCA1HJ-470W	C CAPACITOR	47pF 50V J	
	C1045	NDCA1HJ-470W	C CAPACITOR	47pF 50V J	
	C1046	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
	C1047	NCFA1HZ-103W	C CAPACITOR	0.01uF 50V Z	
	C1048	NCFA1HZ-103W	C CAPACITOR	0.01uF 50V Z	
	C1049	NCFA1HZ-103W	C CAPACITOR	0.01uF 50V Z	
	C1050	NCFA1HZ-103W	C CAPACITOR	0.01uF 50V Z	
	C1051	NCB31CK-223X	C CAPACITOR	0.022uF 16V K	
	C1052	NCB31CK-223X	C CAPACITOR	0.022uF 16V K	
	C1053	NCB31CK-223X	C CAPACITOR	0.022uF 16V K	
	C1054	NCB31CK-223X	C CAPACITOR	0.022uF 16V K	
	C1055	NCFA1AZ-104W	C CAPACITOR	0.1uF 10V Z	
	C1064	NBE20JM-226X	TA E CAPACITOR	22uF 6.3V M	
	C1102	NBE20JM-226X	TA E CAPACITOR	22uF 6.3V M	
	C1103	NCBA1CK-223W	C CAPACITOR	0.022uF 16V K	
	C1104	NCBA1CK-223W	C CAPACITOR	0.022uF 16V K	
	C1105	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
	C1106	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
	C1107	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
	C2105	NCBA1HK-222W	C CAPACITOR	2200pF 50V K	D73US
	C2106	NCBA1HK-222W	C CAPACITOR	2200pF 50V K	D73US
	C2107	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	D73US

⚠ Symbol No.	Part No.	Part Name	Description	Local
C2108	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	D73US
C2109	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	D73US
C2110	NBE20JM-475X	TA E CAPACITOR	4.7uF 6.3V M	D73US
C2201	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C2202	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C2203	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C2204	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C2205	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C2209	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C2210	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C2211	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	D73US
C2212	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	D73US
C2213	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C2214	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C2215	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C2216	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C2217	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C2218	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C2223	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C2224	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C2401	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
C2402	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
C2403	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
C2404	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
C2405	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C2406	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
C2603	NCBA1CK-223W	C CAPACITOR	0.022uF 16V K	
C2604	NCBA1CK-223W	C CAPACITOR	0.022uF 16V K	
C2605	NCBA1EK-472W	C CAPACITOR	4700pF 25V K	
C2606	NCBA1EK-472W	C CAPACITOR	4700pF 25V K	
C2607	NCBA1HK-102W	C CAPACITOR	1000pF 50V K	
C2608	NCBA1HK-102W	C CAPACITOR	1000pF 50V K	
C2611	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C2612	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C2613	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C2614	NDCA1HJ-101W	C CAPACITOR	100pF 50V J	
C2615	NDCA1HJ-101W	C CAPACITOR	100pF 50V J	
C3001	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
C3003	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C3005	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
C3006	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C3007	NBE20GM-476X	TA E CAPACITOR	47uF 4V M	
C3008	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
C3009	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C3011	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C3012	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C3013	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C3015	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C3016	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C3017	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C3020	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C3021	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C3022	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C3023	NDCA1HJ-330W	C CAPACITOR	33pF 50V J	
C3024	NCBA1HK-102W	C CAPACITOR	1000pF 50V K	
C3025	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C3026	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C3027	NCBA1EK-472W	C CAPACITOR	4700pF 25V K	
C3028	NDCA1EJ-271W	C CAPACITOR	270pF 25V J	
C3029	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C3030	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C3031	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C3032	NCBA1HK-102W	C CAPACITOR	1000pF 50V K	
C3033	NDCA1HJ-220W	C CAPACITOR	22pF 50V J	
C3036	NDCA1HJ-8R0W	C CAPACITOR	8pF 50V J	
C3037	NDCA1HJ-8R0W	C CAPACITOR	8pF 50V J	
C3038	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C3039	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C3042	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C3043	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C3044	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C3045	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C3046	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C3047	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C3048	NCB31CK-473X	C CAPACITOR	0.047uF 16V K	
C3049	NCBA1HK-222W	C CAPACITOR	2200pF 50V K	
C3050	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C3055	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C3059	NBE20GM-226X	TA E CAPACITOR	22uF 4V M	
C3060	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C3064	NCBA1HK-102W	C CAPACITOR	1000pF 50V K	
C3066	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C3067	NCBA1HK-102W	C CAPACITOR	1000pF 50V K	
C3069	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C3201	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
C3202	NCB21AK-105X	C CAPACITOR	1uF 10V K	
C3203	NCB21AK-105X	C CAPACITOR	1uF 10V K	
C3204	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
C3205	NBE20GM-476X	TA E CAPACITOR	47uF 4V M	
C3206	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C3207	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C3208	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C3209	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C3210	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C3211	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C3212	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C3213	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C3214	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C3215	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C3216	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C3217	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C3218	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C3219	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C3220	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C3221	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C3222	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C3223	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C3224	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C3225	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C3226	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C3227	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C3228	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C3229	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C3230	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C3231	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C3232	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C3233	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C3234	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C3235	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C3236	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C3237	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C3701	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	D33US
C3701	NCB10JK-106X	C CAPACITOR	10uF 6.3V K	D73US
C3702	NDCA1HJ-560W	C CAPACITOR	56pF 50V J	
C3703	NDCA1HJ-270W	C CAPACITOR	27pF 50V J	
C3704	NDCA1HJ-680W	C CAPACITOR	68pF 50V J	
C3705	NDCA1HJ-270W	C CAPACITOR	27pF 50V J	
C3706	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C3707	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C3708	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C3709	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C3712	NEAF0GM-337X	E CAPACITOR	330uF 4V M	
C3713	NEAF0GM-337X	E CAPACITOR	330uF 4V M	
C3715	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C3731	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	D73US
C3732	NCBA1HK-102W	C CAPACITOR	1000pF 50V K	D73US
C3733	NDCA1HJ-3R0W	C CAPACITOR	3pF 50V J	D73US
C3734	NDCA1HJ-5R0W	C CAPACITOR	5pF 50V J	D73US
C3735	NDCA1HJ-330W	C CAPACITOR	33pF 50V J	D73US
C3736	NCBA1HK-102W	C CAPACITOR	1000pF 50V K	D73US
C3738	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	D73US
C3739	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	D73US
C3740	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	D73US
C3741	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	D73US
C3742	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	D73US
C3743	NDCA1HJ-9R0W	C CAPACITOR	9pF 50V J	D73US
C3744	NDCA1HJ-150W	C CAPACITOR	15pF 50V J	D73US
C3745	NDCA1HJ-101W	C CAPACITOR	100pF 50V J	D73US
C3746	NCB20JM-475X	C CAPACITOR	4.7uF 6.3V M	D73US
C3747	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	D73US
C4201	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
C4202	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C4203	NCB21AK-105X	C CAPACITOR	1uF 10V K	
C4204	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C4206	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C4207	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	

⚠ Symbol No.	Part No.	Part Name	Description	Local
C4208	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C4209	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C4210	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C4211	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C4212	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C4213	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C4214	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C4216	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C4301	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C4302	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C4303	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C4304	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C4305	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C4306	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C4307	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C4308	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C4309	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C4310	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C4311	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C4312	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C4313	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
C4314	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C4316	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C4803	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
C4804	NCFA1AZ-104W	C CAPACITOR	0.1uF 10V Z	
C4806	NCFA1AZ-104W	C CAPACITOR	0.1uF 10V Z	
C4808	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C4809	NCFA1AZ-104W	C CAPACITOR	0.1uF 10V Z	
C4810	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C4811	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C4813	NCFA1AZ-104W	C CAPACITOR	0.1uF 10V Z	
C4814	NCFA1AZ-104W	C CAPACITOR	0.1uF 10V Z	
C4815	NCB31HK-152X	C CAPACITOR	1500pF 50V K	
C4819	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C4851	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
C4852	NCFA1AZ-104W	C CAPACITOR	0.1uF 10V Z	
C4853	NBE21AM-335X	TA E CAPACITOR	3.3uF 10V M	
C4854	NBE21AM-106X	TA E CAPACITOR	10uF 10V M	
C4855	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C4858	NDCA1HJ-330W	C CAPACITOR	33pF 50V J	
C4859	NCBA1CK-223W	C CAPACITOR	0.022uF 16V K	
C4860	NCBA1CK-223W	C CAPACITOR	0.022uF 16V K	
C4861	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C4862	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C4864	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
C4865	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C5501	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C5503	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C5504	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C5506	NBE40GM-476X	TA E CAPACITOR	47uF 4V M	
C5507	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C5508	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C5509	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C5510	NBP21VM-105X	TA E CAPACITOR	1uF 35V M	
C5511	NBP41EM-475X	TA E CAPACITOR	4.7uF 25V M	
C5512	NBE21AM-106X	TA E CAPACITOR	10uF 10V M	
C5513	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C5514	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C5515	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C5516	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C5517	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C5518	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C5519	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C6001	NCBA1HK-332W	C CAPACITOR	3300pF 50V K	
C6002	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C6003	NEAF1CM-106X	E CAPACITOR	10uF 16V M	D33US
C6003	NBP41VM-225X	TA E CAPACITOR	2.2uF 35V M	D73US
C6004	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C6021	NCB21CK-104X	C CAPACITOR	0.1uF 16V K	
C6022	NCB21CK-104X	C CAPACITOR	0.1uF 16V K	
C6023	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C6024	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C6025	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C6026	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C6027	NCBA1EK-472W	C CAPACITOR	4700pF 25V K	
C6029	NCBA1HK-102W	C CAPACITOR	1000pF 50V K	
C6030	NCBA1HK-102W	C CAPACITOR	1000pF 50V K	
C6031	NCBA1EK-472W	C CAPACITOR	4700pF 25V K	
C6032	NCBA1HK-102W	C CAPACITOR	1000pF 50V K	
C6033	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C6034	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C6035	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C6036	NDCA1HJ-101W	C CAPACITOR	100pF 50V J	
C6037	NCB21CK-473X	C CAPACITOR	0.047uF 16V K	
C6038	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C6039	NCB21CK-224X	C CAPACITOR	0.22uF 16V K	
C6040	NCB31CK-473X	C CAPACITOR	0.047uF 16V K	
C6041	NCB31CK-473X	C CAPACITOR	0.047uF 16V K	
C6042	NCB31CK-473X	C CAPACITOR	0.047uF 16V K	
C6043	NCB31CK-683X	C CAPACITOR	0.068uF 16V K	
C6044	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C6045	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C6101	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C6103	NCB10JK-106X	C CAPACITOR	10uF 6.3V K	
C6104	NCBA1HK-102W	C CAPACITOR	1000pF 50V K	
C6105	NCBA1HK-561W	C CAPACITOR	560pF 50V K	
C6106	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C6201	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C6203	NCB10JK-106X	C CAPACITOR	10uF 6.3V K	
C6204	NCBA1HK-102W	C CAPACITOR	1000pF 50V K	
C6301	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C6303	NCB10JK-106X	C CAPACITOR	10uF 6.3V K	
C6304	NCBA1HK-102W	C CAPACITOR	1000pF 50V K	
C6401	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C6403	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C6405	NCB31CK-683X	C CAPACITOR	0.068uF 16V K	
C6501	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C6503	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C6505	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C6601	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C6602	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C6603	NCB11EK-105X	C CAPACITOR	1uF 25V K	
C6605	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C6606	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C6607	NCB11EK-105X	C CAPACITOR	1uF 25V K	
C6608	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C6609	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C6610	NDCA1HJ-101W	C CAPACITOR	100pF 50V J	
C6701	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C6703	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C6801	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C6802	NBE40JM-476X	TA E CAPACITOR	47uF 6.3V M	
C6804	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C6807	NCB10JK-106X	C CAPACITOR	10uF 6.3V K	
C6809	NDCA1HJ-151W	C CAPACITOR	150pF 50V J	
C8001	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	D73US
C8002	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	D73US
C8003	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	D73US
C8004	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	D73US
C8005	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	D73US
C8006	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	D73US
C8007	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	D73US
C8008	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	D73US
C8010	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	D73US
C8011	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	D73US
C8014	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	D73US
C8015	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	D73US
C8016	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	D73US
C8017	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	D73US
C8018	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	D73US
C8019	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	D73US
C8020	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	D73US
C8021	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	D73US
C8022	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	D73US
C8023	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	D73US
C8025	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	D73US
C8026	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	D73US
C8030	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	D73US
C8031	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	D73US
C8301	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	D73US
C8305	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	D73US
C8306	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	D73US
C8307	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	D73US
C8310	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	D73US
C8311	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	D73US

⚠ Symbol No.	Part No.	Part Name	Description	Local
R1001	NRSA6AJ-105W	MG RESISTOR	1MΩ 1/16W J	
R1002	NRSA6AJ-104W	MG RESISTOR	100kΩ 1/16W J	
R1003	NRSA6AJ-104W	MG RESISTOR	100kΩ 1/16W J	
R1006	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
R1007	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	D33US
R1008	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	
R1009	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	
R1011	NRSA6AJ-104W	MG RESISTOR	100kΩ 1/16W J	
R1012	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
R1013	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
R1014	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
R1015	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
R1016	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	
R1017	NRSA6AJ-474W	MG RESISTOR	470kΩ 1/16W J	
R1018	NRSA6AJ-474W	MG RESISTOR	470kΩ 1/16W J	
R1019	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R1020	NRSA6AJ-104W	MG RESISTOR	100kΩ 1/16W J	
R1021	NRSA6AJ-104W	MG RESISTOR	100kΩ 1/16W J	
R1022	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
R1023	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
R1024	NRSA6AJ-104W	MG RESISTOR	100kΩ 1/16W J	
R1025	NRSA6AJ-104W	MG RESISTOR	100kΩ 1/16W J	
R1026	NRSA6AJ-473W	MG RESISTOR	47kΩ 1/16W J	
R1028	NRSA6AJ-473W	MG RESISTOR	47kΩ 1/16W J	D33US
R1030	NRSA6AJ-753W	MG RESISTOR	75kΩ 1/16W J	
R1031	NRSA6AJ-334W	MG RESISTOR	330kΩ 1/16W J	
R1032	NRSA6AJ-332W	MG RESISTOR	3.3kΩ 1/16W J	
R1033	NRSA6AJ-332W	MG RESISTOR	3.3kΩ 1/16W J	
R1034	NRSA6AJ-332W	MG RESISTOR	3.3kΩ 1/16W J	
R1035	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
R1037	NRSA6AJ-561W	MG RESISTOR	560Ω 1/16W J	D33US
R1037	NRSA6AJ-121W	MG RESISTOR	120Ω 1/16W J	D73US
R1038	NRSA6AJ-104W	MG RESISTOR	100kΩ 1/16W J	
R1039	NRSA6AJ-152W	MG RESISTOR	1.5kΩ 1/16W J	
R1040	NRSA6AJ-104W	MG RESISTOR	100kΩ 1/16W J	
R1043	NRSA6AJ-104W	MG RESISTOR	100kΩ 1/16W J	
R1044	NRSA6AJ-104W	MG RESISTOR	100kΩ 1/16W J	
R1045	NRSA6AJ-105W	MG RESISTOR	1MΩ 1/16W J	
R1046	NRSA6AJ-104W	MG RESISTOR	100kΩ 1/16W J	
R1047	NRSA6AJ-104W	MG RESISTOR	100kΩ 1/16W J	
R1048	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	
R1049	NRSA6AJ-623W	MG RESISTOR	62kΩ 1/16W J	
R1050	NRSA6AJ-823W	MG RESISTOR	82kΩ 1/16W J	
R1051	NRSA6AJ-473W	MG RESISTOR	47kΩ 1/16W J	
R1052	NRSA6AJ-104W	MG RESISTOR	100kΩ 1/16W J	
R1053	NRSA6AJ-222W	MG RESISTOR	2.2kΩ 1/16W J	
R1054	NRSA6AJ-104W	MG RESISTOR	100kΩ 1/16W J	
R1055	NRSA6AJ-334W	MG RESISTOR	330kΩ 1/16W J	
R1056	NRSA6AJ-334W	MG RESISTOR	330kΩ 1/16W J	
R1057	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
R1058	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
R1059	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
R1060	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	
R1062	NRSA6AJ-224W	MG RESISTOR	220kΩ 1/16W J	
R1063	NRSA6AJ-472W	MG RESISTOR	4.7kΩ 1/16W J	
R1064	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	
R1065	NRSA6AJ-153W	MG RESISTOR	15kΩ 1/16W J	
R1066	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	
R1067	NRSA6AJ-334W	MG RESISTOR	330kΩ 1/16W J	
R1068	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
R1069	NRSA6AJ-104W	MG RESISTOR	100kΩ 1/16W J	
R1070	NRSA6AJ-154W	MG RESISTOR	150kΩ 1/16W J	
R1071	NRSA6AJ-272W	MG RESISTOR	2.7kΩ 1/16W J	
R1072	NRSA6AJ-183W	MG RESISTOR	18kΩ 1/16W J	
R1073	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	
R1074	NRSA6AJ-472W	MG RESISTOR	4.7kΩ 1/16W J	
R1075	NRSA6AJ-473W	MG RESISTOR	47kΩ 1/16W J	
R1076	NRSA6AJ-473W	MG RESISTOR	47kΩ 1/16W J	
R1077	NRSA6AJ-104W	MG RESISTOR	100kΩ 1/16W J	
R1078	NRSA6AJ-393W	MG RESISTOR	39kΩ 1/16W J	
R1079	NRSA6AJ-223W	MG RESISTOR	22kΩ 1/16W J	
R1080	NRSA6AJ-822W	MG RESISTOR	8.2kΩ 1/16W J	
R1081	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	
R1082	NRSA6AJ-123W	MG RESISTOR	12kΩ 1/16W J	
R1083	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
R1084	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
R1085	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
R1086	NRSA6AJ-332W	MG RESISTOR	3.3kΩ 1/16W J	
R1087	NRSA6AJ-332W	MG RESISTOR	3.3kΩ 1/16W J	
R1088	NRSA6AJ-332W	MG RESISTOR	3.3kΩ 1/16W J	
R1089	NRSA6AJ-332W	MG RESISTOR	3.3kΩ 1/16W J	
R1091	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	
R1092	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	
R1093	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	
R1094	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	
R1095	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
R1096	NRSA6AJ-104W	MG RESISTOR	100kΩ 1/16W J	
R1097	NRSA6AJ-104W	MG RESISTOR	100kΩ 1/16W J	
R1099	NRSA6AJ-104W	MG RESISTOR	100kΩ 1/16W J	
R1101	NRSA6AJ-105W	MG RESISTOR	1MΩ 1/16W J	
R1102	NRSA6AJ-472W	MG RESISTOR	4.7kΩ 1/16W J	
R1103	NRSA6AJ-333W	MG RESISTOR	33kΩ 1/16W J	
R1104	NRSA6AJ-105W	MG RESISTOR	1MΩ 1/16W J	
R1105	NRSA6AJ-472W	MG RESISTOR	4.7kΩ 1/16W J	
R1106	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	
R1107	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	
R1108	NRSA6AJ-302W	MG RESISTOR	3kΩ 1/16W J	
R1151	NRSA6AJ-470W	MG RESISTOR	47Ω 1/16W J	
R2013	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R2014	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R2015	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R2016	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R2017	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R2018	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R2101	NRSA6AJ-471W	MG RESISTOR	470Ω 1/16W J	D73US
R2102	NRSA6AJ-471W	MG RESISTOR	470Ω 1/16W J	D73US
R2105	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	D73US
R2111	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	D73US
R2112	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	D73US
R2113	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	D73US
R2114	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	D73US
R2201	NRSA6AJ-684W	MG RESISTOR	680kΩ 1/16W J	
R2202	NRSA6AJ-564W	MG RESISTOR	560kΩ 1/16W J	
R2203	NRSA6AJ-393W	MG RESISTOR	39kΩ 1/16W J	
R2204	NRSA6AJ-154W	MG RESISTOR	150kΩ 1/16W J	
R2206	NRSA6AJ-333W	MG RESISTOR	33kΩ 1/16W J	
R2207	NRSA6AJ-333W	MG RESISTOR	33kΩ 1/16W J	
R2208	NRSA6AJ-223W	MG RESISTOR	22kΩ 1/16W J	
R2209	NRSA6AJ-223W	MG RESISTOR	22kΩ 1/16W J	
R2210	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R2211	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R2212	NRSA6AJ-2R7W	MG RESISTOR	2.7Ω 1/16W J	
R2213	NRSA6AJ-2R7W	MG RESISTOR	2.7Ω 1/16W J	
R2217	NRSA6AJ-100W	MG RESISTOR	10Ω 1/16W J	
R2218	NRSA6AJ-100W	MG RESISTOR	10Ω 1/16W J	
R2219	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R2220	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R2221	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R2222	NRSA6AJ-100W	MG RESISTOR	10Ω 1/16W J	
R2223	NRSA6AJ-100W	MG RESISTOR	10Ω 1/16W J	
R2224	NRSA6AJ-100W	MG RESISTOR	10Ω 1/16W J	
R2225	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R2226	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R2229	NRSA6AJ-564W	MG RESISTOR	560kΩ 1/16W J	
R2230	NRSA6AJ-564W	MG RESISTOR	560kΩ 1/16W J	
R2231	NRSA6AJ-332W	MG RESISTOR	3.3kΩ 1/16W J	
R2401	NRSA6AJ-472W	MG RESISTOR	4.7kΩ 1/16W J	
R2402	NRSA6AJ-472W	MG RESISTOR	4.7kΩ 1/16W J	
R2403	NRSA6AJ-183W	MG RESISTOR	18kΩ 1/16W J	
R2406	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R2407	NRSA6AJ-100W	MG RESISTOR	10Ω 1/16W J	
R2601	NRSA6AJ-182W	MG RESISTOR	1.8kΩ 1/16W J	
R2602	NRSA6AJ-182W	MG RESISTOR	1.8kΩ 1/16W J	
R2607	NRSA6AJ-223W	MG RESISTOR	22kΩ 1/16W J	
R2608	NRSA6AJ-223W	MG RESISTOR	22kΩ 1/16W J	
R2609	NRSA6AJ-224W	MG RESISTOR	220kΩ 1/16W J	
R2610	NRSA6AJ-224W	MG RESISTOR	220kΩ 1/16W J	
R3002	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	
R3004	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	
R3005	NRSA6AJ-100W	MG RESISTOR	10Ω 1/16W J	
R3006	NRSA6AJ-100W	MG RESISTOR	10Ω 1/16W J	
R3007	NRSA6AJ-562W	MG RESISTOR	5.6kΩ 1/16W J	
R3008	NRSA6AJ-222W	MG RESISTOR	2.2kΩ 1/16W J	
R3009	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	
R3010	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	
R3011	NRSA6AJ-224W	MG RESISTOR	220kΩ 1/16W J	

⚠ Symbol No.	Part No.	Part Name	Description	Local
R3013	NRSA6AJ-242W	MG RESISTOR	2.4kΩ 1/16W J	
R3014	NRSA6AJ-392W	MG RESISTOR	3.9kΩ 1/16W J	
R3015	NRSA6AJ-392W	MG RESISTOR	3.9kΩ 1/16W J	
R3016	NRVA6AD-560W	CMF RESISTOR	56Ω 1/16W D	
R3017	NRVA6AD-560W	CMF RESISTOR	56Ω 1/16W D	
R3018	NRVA6AD-560W	CMF RESISTOR	56Ω 1/16W D	
R3019	NRVA6AD-560W	CMF RESISTOR	56Ω 1/16W D	
R3020	NRVA6AD-512W	CMF RESISTOR	5.1kΩ 1/16W D	
R3021	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R3025	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
R3027	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	
R3029	NRSA6AJ-822W	MG RESISTOR	8.2kΩ 1/16W J	
R3030	NRSA6AJ-224W	MG RESISTOR	220kΩ 1/16W J	
R3031	NRSA6AJ-224W	MG RESISTOR	220kΩ 1/16W J	
R3032	NRSA6AJ-105W	MG RESISTOR	1MΩ 1/16W J	
R3034	NRSA6AJ-222W	MG RESISTOR	2.2kΩ 1/16W J	
R3036	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	
R3037	NRSA6AJ-681W	MG RESISTOR	680Ω 1/16W J	
R3057	NRSA6AJ-151W	MG RESISTOR	150Ω 1/16W J	
R3066	NRSA6AJ-561W	MG RESISTOR	560Ω 1/16W J	
R3067	NRSA6AJ-561W	MG RESISTOR	560Ω 1/16W J	
R3068	NRSA6AJ-181W	MG RESISTOR	180Ω 1/16W J	
R3069	NRSA6AJ-472W	MG RESISTOR	4.7kΩ 1/16W J	
R3071	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R3074	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	
R3077	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R3201	NRSA6AJ-101W	MG RESISTOR	100Ω 1/16W J	
R3202	NRSA6AD-183W	MG RESISTOR	18kΩ 1/16W D	
R3203	NRSA6AD-123W	MG RESISTOR	12kΩ 1/16W D	
R3204	NRSA6AD-821W	MG RESISTOR	820Ω 1/16W D	
R3205	NRSA6AD-821W	MG RESISTOR	820Ω 1/16W D	
R3207	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R3339	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3701	NRSA6AD-271W	MG RESISTOR	270Ω 1/16W D	
R3702	NRSA6AD-271W	MG RESISTOR	270Ω 1/16W D	
R3703	NRSA6AJ-332W	MG RESISTOR	3.3kΩ 1/16W J	
R3704	NRSA6AD-301W	MG RESISTOR	300Ω 1/16W D	
R3705	NRSA6AD-301W	MG RESISTOR	300Ω 1/16W D	
R3706	NRSA6AJ-332W	MG RESISTOR	3.3kΩ 1/16W J	
R3707	NRSA6AD-680W	MG RESISTOR	68Ω 1/16W D	
R3708	NRSA6AD-680W	MG RESISTOR	68Ω 1/16W D	
R3709	NRSA6AD-680W	MG RESISTOR	68Ω 1/16W D	
R3710	NRSA6AJ-104W	MG RESISTOR	100kΩ 1/16W J	
R3711	NRSA6AJ-104W	MG RESISTOR	100kΩ 1/16W J	
R3712	NRSA6AJ-105W	MG RESISTOR	1MΩ 1/16W J	
R3713	NRSA6AJ-104W	MG RESISTOR	100kΩ 1/16W J	
R3714	NRSA6AJ-823W	MG RESISTOR	82kΩ 1/16W J	
R3715	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	
R3722	NRSA6AD-131W	MG RESISTOR	130Ω 1/16W D	
R3724	NRSA6AJ-472W	MG RESISTOR	4.7kΩ 1/16W J	
R3725	NRSA6AD-131W	MG RESISTOR	130Ω 1/16W D	
R3726	NRSA6AJ-472W	MG RESISTOR	4.7kΩ 1/16W J	
R3727	NRSA6AJ-472W	MG RESISTOR	4.7kΩ 1/16W J	
R3728	NRSA6AD-131W	MG RESISTOR	130Ω 1/16W D	
R3730	NRSA6AJ-472W	MG RESISTOR	4.7kΩ 1/16W J	
R3731	NRSA6AJ-472W	MG RESISTOR	4.7kΩ 1/16W J	D73US
R3732	NRSA6AJ-101W	MG RESISTOR	100Ω 1/16W J	D73US
R3733	NRSA6AD-561W	MG RESISTOR	560Ω 1/16W D	D73US
R3734	NRSA6AJ-822W	MG RESISTOR	8.2kΩ 1/16W J	D73US
R3735	NRSA6AD-182W	MG RESISTOR	1.8kΩ 1/16W D	D73US
R3736	NRSA6AJ-183W	MG RESISTOR	18kΩ 1/16W J	D73US
R3737	NRSA6AJ-183W	MG RESISTOR	18kΩ 1/16W J	D73US
R3738	NRSA6AJ-681W	MG RESISTOR	680Ω 1/16W J	D73US
R3739	NRSA6AJ-821W	MG RESISTOR	820Ω 1/16W J	D73US
R3740	NRSA6AJ-821W	MG RESISTOR	820Ω 1/16W J	D73US
R3741	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	D73US
R3742	NRSA6AJ-104W	MG RESISTOR	100kΩ 1/16W J	D73US
R3743	NRSA6AJ-104W	MG RESISTOR	100kΩ 1/16W J	D73US
R3744	NRSA6AD-181W	MG RESISTOR	180Ω 1/16W D	D73US
R3745	NRSA6AD-471W	MG RESISTOR	470Ω 1/16W D	D73US
R3746	NRSA6AJ-222W	MG RESISTOR	2.2kΩ 1/16W J	D73US
R3747	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	D73US
R3748	NRSA6AJ-474W	MG RESISTOR	470kΩ 1/16W J	D73US
R4201	NRSA6AJ-333W	MG RESISTOR	33kΩ 1/16W J	
R4202	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R4203	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R4204	NRSA6AJ-220W	MG RESISTOR	22Ω 1/16W J	
R4301	NRSA6AJ-220W	MG RESISTOR	22Ω 1/16W J	
R4302	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R4304	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R4306	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R4307	NRSA6AJ-470W	MG RESISTOR	47Ω 1/16W J	D73US
R4308	NRSA6AJ-470W	MG RESISTOR	47Ω 1/16W J	
R4309	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R4310	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R4315	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R4317	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R4319	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R4326	NRSA6AJ-470W	MG RESISTOR	47Ω 1/16W J	
R4327	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R4328	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R4329	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R4330	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R4331	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R4332	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R4333	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R4334	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R4335	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	D73US
R4336	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	D73US
R4337	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	D73US
R4338	NRSA6AJ-220W	MG RESISTOR	22Ω 1/16W J	D73US
R4339	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R4341	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R4342	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R4343	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R4344	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R4345	NRSA6AJ-220W	MG RESISTOR	22Ω 1/16W J	
R4346	NRSA6AJ-220W	MG RESISTOR	22Ω 1/16W J	
R4354	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R4804	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
R4805	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	
R4806	NRSA6AJ-683W	MG RESISTOR	68kΩ 1/16W J	
R4807	NRSA6AJ-823W	MG RESISTOR	82kΩ 1/16W J	
R4808	NRSA6AJ-243W	MG RESISTOR	24kΩ 1/16W J	
R4809	NRSA6AJ-681W	MG RESISTOR	680Ω 1/16W J	
R4810	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	
R4811	NRSA6AJ-824W	MG RESISTOR	820kΩ 1/16W J	
R4812	NRSA6AJ-153W	MG RESISTOR	15kΩ 1/16W J	
R4814	NRSA6AJ-105W	MG RESISTOR	1MΩ 1/16W J	
R4815	NRSA6AJ-472W	MG RESISTOR	4.7kΩ 1/16W J	
R4816	NRSA6AJ-105W	MG RESISTOR	1MΩ 1/16W J	
R4817	NRSA6AJ-334W	MG RESISTOR	330kΩ 1/16W J	
R4818	NRSA6AJ-154W	MG RESISTOR	150kΩ 1/16W J	
R4819	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	
R4820	NRSA6AJ-104W	MG RESISTOR	100kΩ 1/16W J	
R4821	NRSA6AJ-104W	MG RESISTOR	100kΩ 1/16W J	
R4822	NRSA6AJ-333W	MG RESISTOR	33kΩ 1/16W J	
R4823	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
R4824	NRSA6AJ-472W	MG RESISTOR	4.7kΩ 1/16W J	
R4825	NRSA6AJ-222W	MG RESISTOR	2.2kΩ 1/16W J	D73US
R4826	NRSA6AJ-473W	MG RESISTOR	47kΩ 1/16W J	D73US
R4827	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R4828	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R4833	NRSA6AJ-104W	MG RESISTOR	100kΩ 1/16W J	
R4836	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
R4837	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	D73US
R4839	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	D73US
R4840	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	D73US
R4841	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	D33US
R4842	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	D33US
R4843	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R4844	NRSA6AJ-151W	MG RESISTOR	150Ω 1/16W J	
R4846	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	D73US
R4849	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	D73US
R4854	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R4856	NRSA6AJ-6R8W	MG RESISTOR	6.8Ω 1/16W J	
R4857	NRSA6AJ-6R8W	MG RESISTOR	6.8Ω 1/16W J	
R4858	NRSA6AJ-333W	MG RESISTOR	33kΩ 1/16W J	
R4859	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R4860	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R4862	NRSA6AJ-6R8W	MG RESISTOR	6.8Ω 1/16W J	
R4863	NRSA6AJ-6R8W	MG RESISTOR	6.8Ω 1/16W J	
R4864	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
R4865	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
R4866	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
R4867	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	

⚠ Symbol No.	Part No.	Part Name	Description	Local
R4868	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R4870	NRSA6AJ-271W	MG RESISTOR	270Ω 1/16W J	
R4871	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R4874	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R5501	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R5503	NRSA6AJ-220W	MG RESISTOR	22Ω 1/16W J	
R5504	NRSA6AJ-220W	MG RESISTOR	22Ω 1/16W J	
R5505	NRSA6AJ-220W	MG RESISTOR	22Ω 1/16W J	
R5506	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R5507	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R5509	NRSA6AJ-470W	MG RESISTOR	47Ω 1/16W J	
R5511	NRSA6AJ-470W	MG RESISTOR	47Ω 1/16W J	
R5512	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
R5513	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
R5514	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
R6021	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
R6022	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
R6023	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
R6024	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
R6025	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R6026	NRSA6AJ-393W	MG RESISTOR	39kΩ 1/16W J	
R6027	NRSA6AD-103W	MG RESISTOR	10kΩ 1/16W D	
R6028	NRSA6AD-751W	MG RESISTOR	750Ω 1/16W D	
R6029	NRSA6AD-103W	MG RESISTOR	10kΩ 1/16W D	
R6030	NRSA6AJ-333W	MG RESISTOR	33kΩ 1/16W J	
R6031	NRSA6AJ-472W	MG RESISTOR	4.7kΩ 1/16W J	
R6033	NRSA6AJ-562W	MG RESISTOR	5.6kΩ 1/16W J	
R6034	NRSA6AJ-153W	MG RESISTOR	15kΩ 1/16W J	
R6035	NRSA6AJ-104W	MG RESISTOR	100kΩ 1/16W J	
R6036	NRSA6AJ-104W	MG RESISTOR	100kΩ 1/16W J	
R6037	NRSA6AD-153W	MG RESISTOR	15kΩ 1/16W D	
R6038	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R6042	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R6044	NRSA6AJ-224W	MG RESISTOR	220kΩ 1/16W J	
R6045	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R6046	NRSA6AJ-123W	MG RESISTOR	12kΩ 1/16W J	
R6047	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R6048	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	D33US
R6049	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
R6102	NRVA6AD-223W	CMF RESISTOR	22kΩ 1/16W D	
R6103	NRVA6AD-103W	CMF RESISTOR	10kΩ 1/16W D	
R6104	NRSA6AJ-474W	MG RESISTOR	470kΩ 1/16W J	
R6105	NRSA6AJ-473W	MG RESISTOR	47kΩ 1/16W J	
R6106	NRSA6AJ-101W	MG RESISTOR	100Ω 1/16W J	
R6107	NRSA6AD-183W	MG RESISTOR	18kΩ 1/16W D	
R6108	NRSA6AD-123W	MG RESISTOR	12kΩ 1/16W D	
R6109	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R6110	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R6202	NRSA6AD-123W	MG RESISTOR	12kΩ 1/16W D	
R6203	NRSA6AD-153W	MG RESISTOR	15kΩ 1/16W D	
R6204	NRSA6AJ-122W	MG RESISTOR	1.2kΩ 1/16W J	
R6302	NRSA6AD-183W	MG RESISTOR	18kΩ 1/16W D	
R6303	NRSA6AD-472W	MG RESISTOR	4.7kΩ 1/16W D	
R6305	NRSA6AJ-104W	MG RESISTOR	100kΩ 1/16W J	
R6306	NRSA6AJ-123W	MG RESISTOR	12kΩ 1/16W J	
R6308	NRSA6AJ-473W	MG RESISTOR	47kΩ 1/16W J	
R6309	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R6310	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R6402	NRSA6AD-243W	MG RESISTOR	24kΩ 1/16W D	
R6403	NRSA6AD-302W	MG RESISTOR	3kΩ 1/16W D	
R6405	NRSA6AJ-123W	MG RESISTOR	12kΩ 1/16W J	
R6406	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	
R6407	NRSA6AJ-104W	MG RESISTOR	100kΩ 1/16W J	
R6502	NRSA6AD-473W	MG RESISTOR	47kΩ 1/16W D	
R6503	NRSA6AD-562W	MG RESISTOR	5.6kΩ 1/16W D	
R6505	NRSA6AJ-473W	MG RESISTOR	47kΩ 1/16W J	
R6506	NRSA6AJ-273W	MG RESISTOR	27kΩ 1/16W J	
R6602	NRSA6AD-114W	MG RESISTOR	110kΩ 1/16W D	
R6603	NRSA6AD-392W	MG RESISTOR	3.9kΩ 1/16W D	
R6604	NRSA6AD-114W	MG RESISTOR	110kΩ 1/16W D	
R6605	NRSA6AJ-222W	MG RESISTOR	2.2kΩ 1/16W J	
R6608	NRSA6AJ-104W	MG RESISTOR	100kΩ 1/16W J	
R6610	NRSA6AD-472W	MG RESISTOR	4.7kΩ 1/16W D	
R6611	NRSA6AD-823W	MG RESISTOR	82kΩ 1/16W D	
R6612	NRSA6AJ-104W	MG RESISTOR	100kΩ 1/16W J	
R6613	NRSA6AJ-823W	MG RESISTOR	82kΩ 1/16W J	
R6614	NRSA6AD-104W	MG RESISTOR	100kΩ 1/16W D	
R6615	NRSA6AD-104W	MG RESISTOR	100kΩ 1/16W D	

⚠ Symbol No.	Part No.	Part Name	Description	Local
R6616	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	
R6617	NRSA6AJ-333W	MG RESISTOR	33kΩ 1/16W J	
R6618	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
R6619	NRSA6AD-823W	MG RESISTOR	82kΩ 1/16W D	
R6701	NRZ0058-R20X	MG RESISTOR	0.2Ω 1/2W J	
R6702	NRSA6AD-114W	MG RESISTOR	110kΩ 1/16W D	
R6703	NRSA6AD-153W	MG RESISTOR	15kΩ 1/16W D	
R6704	NRSA6AJ-224W	MG RESISTOR	220kΩ 1/16W J	
R6706	NRSA6AD-823W	MG RESISTOR	82kΩ 1/16W D	
R6707	NRSA6AD-333W	MG RESISTOR	33kΩ 1/16W D	
R6709	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R6803	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R6804	NRVA6AD-563W	CMF RESISTOR	56kΩ 1/16W D	
⚠ R6805	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
R6813	NRVA6AD-273W	CMF RESISTOR	27kΩ 1/16W D	
R6815	NRSA6AJ-681W	MG RESISTOR	680Ω 1/16W J	
R8001	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	D73US
R8002	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	D73US
R8003	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	D73US
R8004	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	D73US
R8005	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	D73US
R8006	NRSA6AJ-153W	MG RESISTOR	15kΩ 1/16W J	D73US
R8007	NRSA6AJ-472W	MG RESISTOR	4.7kΩ 1/16W J	D73US
R8009	NRSA6AJ-472W	MG RESISTOR	4.7kΩ 1/16W J	D73US
R8016	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	D73US
R8017	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	D73US
R8022	NRSA6AJ-105W	MG RESISTOR	1MΩ 1/16W J	D73US
R8030	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	D73US
R8031	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	D73US
R8037	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	D73US
R8038	NRSA6AJ-220W	MG RESISTOR	22Ω 1/16W J	D73US
R8041	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	D73US
R8042	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	D73US
R8043	NRSA6AJ-220W	MG RESISTOR	22Ω 1/16W J	D73US
R8046	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	D73US
R8051	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	D73US
R8054	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	D73US
R8056	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	D73US
R8059	NRSA6AJ-473W	MG RESISTOR	47kΩ 1/16W J	D73US
R8063	NRSA6AJ-220W	MG RESISTOR	22Ω 1/16W J	D73US
R8065	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	D73US
R8066	NRSA6AJ-473W	MG RESISTOR	47kΩ 1/16W J	D73US
R8068	NRSA6AJ-561W	MG RESISTOR	560Ω 1/16W J	D73US
R8069	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	D73US
R8070	NRSA6AJ-220W	MG RESISTOR	22Ω 1/16W J	D73US
R8074	NRSA6AJ-473W	MG RESISTOR	47kΩ 1/16W J	D73US
R8075	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	D73US
R8076	NRSA6AJ-220W	MG RESISTOR	22Ω 1/16W J	D73US
R8077	NRSA6AJ-220W	MG RESISTOR	22Ω 1/16W J	D73US
R8078	NRSA6AJ-220W	MG RESISTOR	22Ω 1/16W J	D73US
R8079	NRSA6AJ-221W	MG RESISTOR	220Ω 1/16W J	D73US
R8302	NRS181J-220X	MG RESISTOR	22Ω 1/8W J	D73US
R8303	NRS181J-220X	MG RESISTOR	22Ω 1/8W J	D73US
R8305	NRSA6AJ-105W	MG RESISTOR	1MΩ 1/16W J	D73US
R8306	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	D73US
R8307	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	D73US
R8308	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	D73US
R8309	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	D73US
R8313	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	D73US
R8314	NRSA6AJ-105W	MG RESISTOR	1MΩ 1/16W J	D73US
R8315	NRSA6AJ-105W	MG RESISTOR	1MΩ 1/16W J	D73US
R8716	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	D73US
R8717	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	D73US
RA1001	NRZ0034-473W	NET RESISTOR	47kΩ 1/32W J	
RA1002	NRZ0034-104W	NET RESISTOR	100kΩ 1/32W J	
RA1004	NRZ0034-104W	NET RESISTOR	100kΩ 1/32W J	
RA1005	NRZ0034-103W	NET RESISTOR	10kΩ 1/32W J	
RA1006	NRZ0034-102W	NET RESISTOR	1kΩ 1/32W J	
RA1007	NRZ0034-102W	NET RESISTOR	1kΩ 1/32W J	
RA1008	NRZ0034-104W	NET RESISTOR	100kΩ 1/32W J	
RA3001	NRZ0034-560W	NET RESISTOR	56Ω 1/32W J	
RA3002	NRZ0034-560W	NET RESISTOR	56Ω 1/32W J	
RA3003	NRZ0034-100W	NET RESISTOR	10Ω 1/32W J	
RA3004	NRZ0034-103W	NET RESISTOR	10kΩ 1/32W J	
RA3005	NRZ0040-0R0X	NET RESISTOR	0Ω 1/16W J	
RA8001	NRZ0034-101W	NET RESISTOR	100Ω 1/32W J	D73US
RA8002	NRZ0034-101W	NET RESISTOR	100Ω 1/32W J	D73US
RA8003	NRZ0034-101W	NET RESISTOR	100Ω 1/32W J	D73US

⚠	Symbol No.	Part No.	Part Name	Description	Local
	RA8004	NRZ0034-101W	NET RESISTOR	100Ω 1/32W J	D73US
	L1001	NQL402M-100X	COIL	10uH M	
	L1002	NQL402M-100X	COIL	10uH M	
	L2101	NQL38DK-100X	P COIL	10uH K	D73US
	L2401	NQL402M-100X	COIL	10uH M	
	L2402	NQL402M-100X	COIL	10uH M	
	L3001	NQR0129-002X	FERRITE BEADS		
	L3002	NQR0129-002X	FERRITE BEADS		
	L3004	NQR0006-001X	FERRITE BEADS		
	L3005	NQR0006-001X	FERRITE BEADS		
	L3007	NQL085J-2R2X	COIL	2.2uH J	
	L3008	NQL085J-120X	COIL	12uH J	
	L3012	NQR0129-002X	FERRITE BEADS		
	L3014	NQL38DK-100X	P COIL	10uH K	
	L3015	NQR0006-001X	FERRITE BEADS		
	L3201	NQR0129-002X	FERRITE BEADS		
	L3202	NQR0129-002X	FERRITE BEADS		
	L3203	NQR0006-001X	FERRITE BEADS		
	L3204	NQL38DK-100X	P COIL	10uH K	
	L3701	NQL38DK-100X	P COIL	10uH K	
	L3731	NQL085J-6R8X	COIL	6.8uH J	D73US
	L3732	NQL085J-2R2X	COIL	2.2uH J	D73US
	L4201	NQR0129-002X	FERRITE BEADS		
	L4301	NQR0129-002X	FERRITE BEADS		
	L4302	NQR0129-002X	FERRITE BEADS		
	L4802	NQL302N-100X	COIL	10uH N	
	L4851	NQR0129-002X	FERRITE BEADS		
	L4852	NQL38DK-100X	P COIL	10uH K	
	L4853	NQL38DK-100X	P COIL	10uH K	
	L5501	NQL38DK-100X	P COIL	10uH K	
	L5502	NQR0129-002X	FERRITE BEADS		
	L5503	NQR0129-002X	FERRITE BEADS		
	L5504	NQR0129-002X	FERRITE BEADS		
	L5505	NQL38DK-100X	P COIL	10uH K	
	L5506	NQL38DK-100X	P COIL	10uH K	
	L6001	NQL52EN-4R7X	COIL	4.7uH N	D73US
	L6101	NQL52EM-390X	COIL	39uH M	
	L6201	NQL82EN-390X	COIL	39uH N	
	L6301	NQL52EM-390X	COIL	39uH M	
	L6302	NQL144K-220X	P COIL	22uH K	
	L6401	NQL52EM-470X	COIL	47uH M	
	L6501	NQL52EM-470X	COIL	47uH M	
	L6601	NQLZ011-221X	COIL	220uH M	
	L6701	NQL73EM-100X	COIL	10uH M	
	L6801	NQL79GM-470X	COIL	47uH M	
	L8001	NQR0129-002X	FERRITE BEADS		D73US
	L8002	NQR0129-002X	FERRITE BEADS		D73US
	L8003	NQR0129-002X	FERRITE BEADS		D73US
	L8004	NQR0129-002X	FERRITE BEADS		D73US
	L8005	NQR0129-002X	FERRITE BEADS		D73US
	L8006	NQR0129-002X	FERRITE BEADS		D73US
	L8301	NQR0129-002X	FERRITE BEADS		D73US
	CN101	QGF0528F1-40X	CONNECTOR	MONITOR L FFC/FPC (1-40)	
	CN102	QGF0508F1-06X	CONNECTOR	FRONT FFC/FPC (1-6)	
	CN103	QGF0534F1-10X	CONNECTOR	SD CARD L FFC/FPC (1-10)	D73US
	CN104	QGA1002C1-08X	CONNECTOR	REAR W W-B (1-8)	
	CN105	QGB0801M1-30X	CONNECTOR	JIG CN B B-B (1-30)	
	CN106	QGA1001F1-04X	CONNECTOR	MIC W W-B (1-4)	
	CN107	QGF0512C1-20X	CONNECTOR	CCD S FFC/FPC (1-20)	
	CN108	QGF0512C1-24X	CONNECTOR	OP S FFC/FPC (1-24)	
	CN109	QGF0534F1-16X	CONNECTOR	OPE UNITL FFC/FPC (1-16)	
	CN110	QGF0508F1-40X	CONNECTOR	PRE/MDA L FFC/FPC (1-40)	
	CN111	QGF0508F1-40X	CONNECTOR	PRE/MDA L FFC/FPC (1-40)	
	CN112	QGF0512C1-12X	CONNECTOR	REAR FFC/FPC (1-12)	
⚠	F6001	NMFZ007-2R5X-K	FUSE	2.5A 24V	
⚠	F6301	NMFZ007-1R25X-K	FUSE	1.25A 32V	
⚠	F6801	NMFZ007-R50X-K	FUSE	0.5A 50V	
	J501	NNZ0041-001X	D CONNECTOR	DV IEEE1394(4pin)	
	J502	QNZ0616-001	USB CONNECTOR	USB	D73US
	X1001	NAX0630-001	CRYSTAL		
	X1002	NAX0564-001X	CRYSTAL		
	X3002	NAX0480-001X	CRYSTAL	24.576MHz	
	X5501	NAX0587-001X	CXO		
	X8301	NAX0612-001X	C RESONATOR		D73US
	OT1	LY30030-0Y7A	SPACER(A)	SPACER	
	OT2	LY30030-0Y3A	SPACER(A)		
	OT3	LY44551-001A	SHEET(MA2)	MAIN	D33US
	OT3	LY44549-001A	SHIELD SHEET		D73US
	OT4	LY44552-001A	BUSTERAID	MAIN	D33US
	WR1	WJT0122-001A	E-CARD WIRE	MAN-PRE/MD(x2)	

MONI-C BOARD ASSEMBLY <02> [S TYPE]

NOTE :

There are two types of VF(COLOR) ASSEMBLY used for this model: S type and K type.

For methods to distinguish the two types, see Cover Page.

⚠	Symbol No.	Part No.	Part Name	Description	Local
	PW1	YB10447A-02	MONI-C BOARD ASSY		D73US
	PW1	YB10447B-02	MONI-C BOARD ASSY		D33US
	IC7601	AN2540FHQ	IC		
	IC7602	RC4558D-X	IC		
	IC7604	SN74LV08APW-X	IC		
	IC7606	MM1613AN-X	IC		
	Q7601	2SC4617/QR/-X	TRANSISTOR		
	Q7601	or 2SC4738/YG/-X	TRANSISTOR		
	Q7601	or 2SD2216J/QR/-X	TRANSISTOR		
	Q7601	or BC847BT-X	TRANSISTOR		
	Q7602	2SA1774/QR/-X	TRANSISTOR		
	Q7602	or 2SA1832/YG/-X	TRANSISTOR		
	Q7602	or BC857BT-X	TRANSISTOR		
	Q7602	or 2SB1462J/QR/-X	TRANSISTOR		
	Q7603	2SC4617/QR/-X	TRANSISTOR		
	Q7603	or 2SC4738/YG/-X	TRANSISTOR		
	Q7603	or 2SD2216J/QR/-X	TRANSISTOR		
	Q7603	or BC847BT-X	TRANSISTOR		
	Q7604	2SA1774/QR/-X	TRANSISTOR		
	Q7604	or 2SA1832/YG/-X	TRANSISTOR		
	Q7604	or BC857BT-X	TRANSISTOR		
	Q7604	or 2SB1462J/QR/-X	TRANSISTOR		
	Q7608	DTC144EE-X	DIGI TRANSISTOR		
	Q7608	or UN9213J-X	DIGI TRANSISTOR		
	Q7608	or RN1104-X	DIGI TRANSISTOR		
	Q7608	or BCR148T-X	DIGI TRANSISTOR		
	Q7609	DTC144EE-X	DIGI TRANSISTOR		
	Q7609	or UN9213J-X	DIGI TRANSISTOR		
	Q7609	or RN1104-X	DIGI TRANSISTOR		
	Q7609	or BCR148T-X	DIGI TRANSISTOR		
	Q7610	DTA144EE-X	DIGI TRANSISTOR		
	Q7610	or UN9113J-X	DIGI TRANSISTOR		
	Q7610	or RN2104-X	DIGI TRANSISTOR		
	Q7610	or BCR198T-X	DIGI TRANSISTOR		
	D7602	BAS16-03W-X	SI DIODE		
	D7604	MA8068-X	Z DIODE		
	C1	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
	C10	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	D73US
	C11	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	D73US
	C7601	NCB21CK-105X	C CAPACITOR	1uF 16V K	
	C7603	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	
	C7604	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	
	C7605	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	
	C7606	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
	C7607	NCB41CK-106X	C CAPACITOR	10uF 16V K	
	C7609	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
	C7610	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	
	C7611	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	
	C7612	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	
	C7613	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	
	C7614	NCB31HK-152X	C CAPACITOR	1500pF 50V K	
	C7616	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
	C7618	NBE90JM-106X	TA E CAPACITOR	10uF 6.3V M	
	C7619	NBE90JM-106X	TA E CAPACITOR	10uF 6.3V M	
	C7621	NCB21CK-105X	C CAPACITOR	1uF 16V K	
	C7622	NCB21CK-105X	C CAPACITOR	1uF 16V K	
	C7623	NBE21AM-106X	TA E CAPACITOR	10uF 10V M	

⚠ Symbol No.	Part No.	Part Name	Description	Local
C7624	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C7626	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C7627	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C7628	NBP41EM-475X	TA E CAPACITOR	4.7uF 25V M	
C7629	NBP21CM-335X	TA E CAPACITOR	3.3uF 16V M	
C7630	NBP41EM-475X	TA E CAPACITOR	4.7uF 25V M	
C7632	NBP41EM-475X	TA E CAPACITOR	4.7uF 25V M	
C7634	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	
C7637	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C7638	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	
C7639	NBP41CM-106X	TA E CAPACITOR	10uF 16V M	
C7642	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C7653	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C7654	NCB21AK-105X	C CAPACITOR	1uF 10V K	
R3	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R5	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R6	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R7	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	D73US
R8	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	D73US
R9	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	D73US
R18	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	D73US
R19	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	D73US
R21	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	D73US
R22	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	D73US
R23	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	D73US
R25	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	D73US
R29	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	D73US
R30	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	D73US
R31	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	D73US
R32	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	D73US
R7601	NRVA63D-622X	CMF RESISTOR	6.2kΩ 1/16W D	
R7602	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R7604	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R7605	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R7606	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R7607	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R7608	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R7609	NRVA63D-223X	CMF RESISTOR	22kΩ 1/16W D	
R7610	NRVA63D-433X	CMF RESISTOR	43kΩ 1/16W D	
R7611	NRVA63D-821X	CMF RESISTOR	820Ω 1/16W D	
R7612	NRVA63D-223X	CMF RESISTOR	22kΩ 1/16W D	
R7613	NRVA63D-223X	CMF RESISTOR	22kΩ 1/16W D	
R7614	NRVA63D-223X	CMF RESISTOR	22kΩ 1/16W D	
R7615	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R7616	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R7617	NRSA02J-330X	MG RESISTOR	33Ω 1/10W J	
R7618	NRSA02J-330X	MG RESISTOR	33Ω 1/10W J	
R7619	NRSA63D-103X	MG RESISTOR	10kΩ 1/16W D	
R7626	NRVA63D-563X	CMF RESISTOR	56kΩ 1/16W D	
R7627	NRSA63J-335X	MG RESISTOR	3.3MΩ 1/16W J	
R7630	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R7634	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R7636	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R7637	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R7638	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R7639	NRSA63D-912X	MG RESISTOR	9.1kΩ 1/16W D	
R7643	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R7644	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R7646	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R7648	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R7663	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
L10	NQR0129-002X	FERRITE BEADS		D73US
L7601	NQL38DK-100X	P COIL	10uH K	
L7602	NQL38DK-100X	P COIL	10uH K	
L7603	NQL38DK-100X	P COIL	10uH K	
L7604	NQL38DK-100X	P COIL	10uH K	
L7605	NQL38DK-100X	P COIL	10uH K	
L7607	NQL38DK-100X	P COIL	10uH K	
CN761	QGF0508F1-40X	CONNECTOR	MAIN FFC/FPC (1-40)	
CN762	QGF0532F2-10X	CONNECTOR	DSC FFC/FPC (1-10)	D73US
CN763	QGF0532F2-20X	CONNECTOR	2.5 FFC/FPC (1-20)	
CN765	QGF0506F2-32X	CONNECTOR	LCD BL FFC/FPC (1-32)	
CN766	NNZ0058-001X	SD CARD CONNECTOR	SD/MMC	D73US
J7601	QND0087-001	S JACK		

⚠ Symbol No.	Part No.	Part Name	Description	Local
SW2	NSW0198-001X	TACT SWITCH	STOP	
SW3	NSW0198-001X	TACT SWITCH	REW	
SW4	NSW0198-001X	TACT SWITCH	FF	
SW5	NSW0198-001X	TACT SWITCH	PLAY/PAUSE	
SW6	NSW0099-001X	SLIDE SWITCH	DSC	D73US
SW7	NSW0198-001X	TACT SWITCH		D73US
SW8	NSW0198-001X	TACT SWITCH		D73US
SW7601	QSW0451-001	DETECT SW	2.5 OPN SW	
OT1	LY30030-0V7A	SPACER(A)	SW3/SW4(x2)	
OT2	LY30034-003A	SPACER(A)	SW8,SIDE	
WR1	QUQ105-4007AA	FFC WIRE	MAIN-M.FFC	
WR2	QUQ105-1007AA	FFC WIRE	MAIN-M.FFC	D73US

MONI-C BOARD ASSEMBLY <02> [K TYPE]

NOTE :

There are two types of VF(COLOR) ASSEMBLY used for this model: S type and K type.

For methods to distinguish the two types, see Cover Page.

⚠ Symbol No.	Part No.	Part Name	Description	Local
PW1	YB10453B	MONI-C BOARD ASSY		D33US
PW1	YB10453A-01	MONI-C BOARD ASSY		D73US
IC7601	AN2540FHQ	IC		
IC7602	RC4558D-X	IC		
IC7604	SN74LV08APW-X	IC		
IC7606	MM1613AN-X	IC		
Q7601	2SC4617/QR/-X	TRANSISTOR		
Q7601	or 2SC4738/YG/-X	TRANSISTOR		
Q7601	or 2SD2216J/QR/-X	TRANSISTOR		
Q7601	or BC847BT-X	TRANSISTOR		
Q7602	2SA1774/QR/-X	TRANSISTOR		
Q7602	or 2SA1832/YG/-X	TRANSISTOR		
Q7602	or BC857BT-X	TRANSISTOR		
Q7602	or 2SB1462J/QR/-X	TRANSISTOR		
Q7603	2SC4617/QR/-X	TRANSISTOR		
Q7603	or 2SC4738/YG/-X	TRANSISTOR		
Q7603	or 2SD2216J/QR/-X	TRANSISTOR		
Q7603	or BC847BT-X	TRANSISTOR		
Q7604	2SA1774/QR/-X	TRANSISTOR		
Q7604	or 2SA1832/YG/-X	TRANSISTOR		
Q7604	or BC857BT-X	TRANSISTOR		
Q7604	or 2SB1462J/QR/-X	TRANSISTOR		
Q7605	DTC144EE-X	DIGI TRANSISTOR	KOPIN	
Q7605	or UN9213J-X	DIGI TRANSISTOR	KOPIN	
Q7605	or RN1104-X	DIGI TRANSISTOR	KOPIN	
Q7605	or BCR148T-X	DIGI TRANSISTOR	KOPIN	
Q7608	DTC144EE-X	DIGI TRANSISTOR		
Q7608	or UN9213J-X	DIGI TRANSISTOR		
Q7608	or RN1104-X	DIGI TRANSISTOR		
Q7608	or BCR148T-X	DIGI TRANSISTOR		
Q7609	DTC144EE-X	DIGI TRANSISTOR		
Q7609	or UN9213J-X	DIGI TRANSISTOR		
Q7609	or RN1104-X	DIGI TRANSISTOR		
Q7609	or BCR148T-X	DIGI TRANSISTOR		
Q7610	DTA144EE-X	DIGI TRANSISTOR		
Q7610	or UN9113J-X	DIGI TRANSISTOR		
Q7610	or RN2104-X	DIGI TRANSISTOR		
Q7610	or BCR198T-X	DIGI TRANSISTOR		
D7602	BAS16-03W-X	SI DIODE		
D7604	MA8068-X	Z DIODE		
C1	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C10	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	D73US
C11	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	D73US
C7601	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C7603	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	
C7604	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	
C7605	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	
C7606	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C7607	NCB41CK-106X	C CAPACITOR	10uF 16V K	
C7609	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	

⚠ Symbol No.	Part No.	Part Name	Description	Local
C7610	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	
C7611	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	
C7612	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	
C7613	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	
C7614	NCB31HK-152X	C CAPACITOR	1500pF 50V K	
C7616	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C7618	NBE90JM-106X	TA E CAPACITOR	10uF 6.3V M	
C7619	NBE90JM-106X	TA E CAPACITOR	10uF 6.3V M	
C7621	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C7622	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C7623	NBE21AM-106X	TA E CAPACITOR	10uF 10V M	
C7624	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C7625	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C7626	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C7627	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C7628	NBP41EM-475X-B	TA E CAPACITOR	4.7uF 25V M	
C7629	NBP21CM-335X	TA E CAPACITOR	3.3uF 16V M	
C7630	NBP41EM-475X-B	TA E CAPACITOR	4.7uF 25V M	
C7632	NBP41EM-475X-B	TA E CAPACITOR	4.7uF 25V M	
C7634	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	
C7637	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C7639	NBP41CM-106X	TA E CAPACITOR	10uF 16V M	
C7642	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C7653	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C7654	NCB21AK-105X	C CAPACITOR	1uF 10V K	
C7655	NBE21AM-106X	TA E CAPACITOR	10uF 10V M	
R3	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R5	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R6	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R7	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	D73US
R8	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	D73US
R9	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	D73US
R18	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	D73US
R19	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	D73US
R21	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	D73US
R22	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	D73US
R23	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	D73US
R25	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	D73US
R29	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	D73US
R30	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	D73US
R31	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	D73US
R32	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	D73US
R7601	NRVA63D-622X	CMF RESISTOR	6.2kΩ 1/16W D	
R7602	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R7604	NRSA63D-273X	MG RESISTOR	27kΩ 1/16W D	
R7605	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R7606	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R7607	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R7608	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R7609	NRVA63D-223X	CMF RESISTOR	22kΩ 1/16W D	
R7610	NRVA63D-433X	CMF RESISTOR	43kΩ 1/16W D	
R7611	NRVA63D-821X	CMF RESISTOR	820Ω 1/16W D	
R7612	NRVA63D-223X	CMF RESISTOR	22kΩ 1/16W D	
R7613	NRVA63D-223X	CMF RESISTOR	22kΩ 1/16W D	
R7614	NRVA63D-223X	CMF RESISTOR	22kΩ 1/16W D	
R7615	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R7616	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R7617	NRSA02J-330X	MG RESISTOR	33Ω 1/10W J	
R7618	NRSA02J-330X	MG RESISTOR	33Ω 1/10W J	
R7619	NRSA63D-103X	MG RESISTOR	10kΩ 1/16W D	
R7621	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R7622	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R7630	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R7634	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R7636	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R7637	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R7638	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R7639	NRSA63D-912X	MG RESISTOR	9.1kΩ 1/16W D	
R7640	NRSA63D-273X	MG RESISTOR	27kΩ 1/16W D	
R7641	NRSA63D-332X	MG RESISTOR	3.3kΩ 1/16W D	
R7642	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R7645	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R7647	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R7648	NRSA63D-183X	MG RESISTOR	18kΩ 1/16W D	
R7651	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R7653	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	

⚠ Symbol No.	Part No.	Part Name	Description	Local
R7654	NRSA63D-122X	MG RESISTOR	1.2kΩ 1/16W D	
R7655	NRSA63D-333X	MG RESISTOR	33kΩ 1/16W D	
R7663	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R7664	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R7665	NRSA63D-683X	MG RESISTOR	68kΩ 1/16W D	
R7666	NRSA63D-473X	MG RESISTOR	47kΩ 1/16W D	
R7667	NRSA63D-561X	MG RESISTOR	560Ω 1/16W D	
L10	NQR0129-002X	FERRITE BEADS		D73US
L7601	NQL38DK-100X	P COIL	10uH K	
L7602	NQL38DK-100X	P COIL	10uH K	
L7603	NQL38DK-100X	P COIL	10uH K	
L7604	NQL38DK-100X	P COIL	10uH K	
L7605	NQL38DK-100X	P COIL	10uH K	
L7607	NQL38DK-100X	P COIL	10uH K	
CN761	QGF0508F1-40X	CONNECTOR	MAIN FFC/FPC (1-40)	
CN762	QGF0532F2-10X	CONNECTOR	DSC FFC/FPC (1-10)	D73US
CN763	QGF0532F2-20X	CONNECTOR	2.5 FFC/FPC (1-20)	
CN765	QGF0506F2-32X	CONNECTOR	LCD BL FFC/FPC (1-32)	
CN766	NNZ0058-001X	SD CARD CONNE	SD/MMC	D73US
J7601	QND0087-001	S JACK		
SW2	NSW0198-001X	TACT SWITCH	STOP	
SW3	NSW0198-001X	TACT SWITCH	REW	
SW4	NSW0198-001X	TACT SWITCH	FF	
SW5	NSW0198-001X	TACT SWITCH	PLAY/PAUSE	
SW6	NSW0099-001X	SLIDE SWITCH	DSC	D73US
SW7	NSW0198-001X	TACT SWITCH		D73US
SW8	NSW0198-001X	TACT SWITCH		D73US
SW7601	QSW0451-001	DETECT SW	2.5 OPN SW	
OT1	LY30030-0V7A	SPACER(A)	(x2)	
WR1	QUQ105-4007AA	FFC WIRE	MAIN-M.FFC	
WR2	QUQ105-1007AA	FFC WIRE	MAIN-M.FFC	D73US

BL2.5 BOARD ASSEMBLY <03>

⚠ Symbol No.	Part No.	Part Name	Description	Local
PW1	YB20964A	BL2.5 BOARD ASSY		
IC7504	DN8797MS-X	IC	TEZUKE	
Q7501	2SD1664/QR/-W	TRANSISTOR		
Q7502	2SD1664/QR/-W	TRANSISTOR		
Q7503	DTA144EE-X	DIGI TRANSISTOR		
Q7503	or UN9113J-X	DIGI TRANSISTOR		
Q7503	or RN2104-X	DIGI TRANSISTOR		
Q7503	or BCR198T-X	DIGI TRANSISTOR		
Q7504	DTC144EE-X	DIGI TRANSISTOR		
Q7504	or UN9213J-X	DIGI TRANSISTOR		
Q7504	or RN1104-X	DIGI TRANSISTOR		
Q7504	or BCR148T-X	DIGI TRANSISTOR		
C7501	NCZ1016-120X	C CAPACITOR	12pF 2kV J	
C7502	NCB21EK-273X	C CAPACITOR	0.027uF 25V K	
C7503	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C7504	NCB10JK-106X	C CAPACITOR	10uF 6.3V K	
R7501	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R7502	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R7503	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R7504	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R7511	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R7512	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R7513	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
L7501	NQLZ010-680X	COIL	68uH	
T7501	NQS0056-001X	SW TARNSF		
CN7601	QGF0534F1-16X	CONNECTOR	FFC/FPC (1-16)	
CN7602	QGF0534F1-16X	CONNECTOR	FFC/FPC (1-16)	
CN7603	QGF0534F1-24X	CONNECTOR	FFC/FPC (1-24)	
⚠ F7501	NMFZ007-R40X-K	FUSE	0.4A 50V	
WR1	QAL0464-001	FPC	TEZUKE	

CCD BOARD ASSEMBLY <04>

⚠ Symbol No.	Part No.	Part Name	Description	Local
PW1	YB20963A-01-SS	CCD BOARD ASSY		D73US
PW1	YB20963B-01-SS	CCD BOARD ASSY		D33US
Q5001	2SC3931/CD/-X	TRANSISTOR		
Q5002	2SC4081/QR/-X	TRANSISTOR	2SC4081	D73US
Q5002	or BC847BW-X	TRANSISTOR		D73US
C5001	NBP41EM-475X	TA E CAPACITOR	4.7uF 25V M	
C5002	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C5003	NBE21AM-106X	TA E CAPACITOR	10uF 10V M	
C5004	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C5005	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C5006	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C5007	NCB31EK-222X	C CAPACITOR	2200pF 25V K	
R5001	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R5002	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R5005	NRS181J-472X	MG RESISTOR	4.7kΩ 1/8W J	D73US
R5007	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
L5001	NQL144K-100X	P COIL	10uH K	
L5002	NQL38DK-100X	P COIL	10uH K	

PREMDA BOARD ASSEMBLY <05>

⚠ Symbol No.	Part No.	Part Name	Description	Local
PW1	YB10445A-02	PREMDA BOARD ASSY		
⚠ IC1601	BD6637KV	IC	MDA 64PIN	
IC1701	BA10358FVM-W	IC	REELAMP5V	
IC1702	LM393DR-X	IC	REELSMT	
IC3501	JCY0132	IC		
IC3502	SN74AHC1G04K-X	IC		
IC3502	or SN74AHC1G04DC-X	IC(DIGITAL)		
Q1601	UMC3N-W	DIGI TRANSISTOR	LD ON	
D1602	DAP222-X	DIODE ARRAY	LD OUT	
D1602	or MA132WA-X	SI DIODE		
D1603	DAP222-X	DIODE ARRAY	LD ON	
D1603	or MA132WA-X	SI DIODE		
D1604	DAP222-X	DIODE ARRAY	C.ERR-3V	
D1604	or MA132WA-X	SI DIODE		
C1601	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C1602	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
C1603	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
C1605	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1606	NCB31HK-152X	C CAPACITOR	1500pF 50V K	
C1607	NCB31CK-473X	C CAPACITOR	0.047uF 16V K	
C1614	NBE21AM-106X	TA E CAPACITOR	10uF 10V M	
C1618	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
C1619	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
C1620	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
C1621	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C1622	NCB31CK-223X	C CAPACITOR	0.022uF 16V K	
C1623	NCB31CK-473X	C CAPACITOR	0.047uF 16V K	
C1624	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C1625	NCS31HJ-101X	C CAPACITOR	100pF 50V J	
C1626	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C1627	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C1628	NCB21CK-224X	C CAPACITOR	0.22uF 16V K	
C1629	NCB21EK-224X	C CAPACITOR	0.22uF 25V K	
C1630	NCB21EK-224X	C CAPACITOR	0.22uF 25V K	
C1631	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
C1632	NCB21CK-474X	C CAPACITOR	0.47uF 16V K	
C1633	NCB21CK-474X	C CAPACITOR	0.47uF 16V K	
C1701	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1702	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3501	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
C3502	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
C3503	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
C3504	NCB31CK-473X	C CAPACITOR	0.047uF 16V K	
C3505	NCB31CK-223X	C CAPACITOR	0.022uF 16V K	
C3506	NCB21AK-105X	C CAPACITOR	1uF 10V K	
C3507	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C3508	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C3509	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C3510	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3511	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C3512	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3513	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3514	NCB31CK-473X	C CAPACITOR	0.047uF 16V K	
C3515	NCB31CK-473X	C CAPACITOR	0.047uF 16V K	
C3516	NCB31CK-473X	C CAPACITOR	0.047uF 16V K	
C3517	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C3518	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C3519	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C3520	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C3521	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3522	NCB20JM-475X	C CAPACITOR	4.7uF 6.3V M	
C3523	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C3524	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C3525	NCB20JM-475X	C CAPACITOR	4.7uF 6.3V M	
C3526	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C3527	NDC31HJ-221X	C CAPACITOR	220pF 50V J	
C3528	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
R1601	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J	
R1602	NRSA63J-124X	MG RESISTOR	120kΩ 1/16W J	
R1603	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R1604	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R1610	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	
R1611	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	
R1612	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R1613	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1614	NRZ0072-R330X	MG RESISTOR	0.33Ω 1/4W F	
R1616	NRSA63D-392X	MG RESISTOR	3.9kΩ 1/16W D	
R1617	NRZ0072-R330X	MG RESISTOR	0.33Ω 1/4W F	
R1620	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J	
R1621	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1622	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1624	NRSA63D-183X	MG RESISTOR	18kΩ 1/16W D	
R1625	NRSA63D-681X	MG RESISTOR	680Ω 1/16W D	
R1629	NRSA63J-564X	MG RESISTOR	560kΩ 1/16W J	
R1630	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1631	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1635	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R1636	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	
R1637	NRSA63J-154X	MG RESISTOR	150kΩ 1/16W J	
R1638	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1639	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
R1640	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
R1641	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1642	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1701	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J	
R1702	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R1703	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R1704	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R1705	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R1706	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J	
R1707	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1708	NRSA63J-124X	MG RESISTOR	120kΩ 1/16W J	
R1709	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1710	NRSA63J-124X	MG RESISTOR	120kΩ 1/16W J	
R1711	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1712	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3501	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R3502	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R3503	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3504	NRSA63D-241X	MG RESISTOR	240Ω 1/16W D	
R3505	NRSA63D-241X	MG RESISTOR	240Ω 1/16W D	
R3506	NRSA63D-241X	MG RESISTOR	240Ω 1/16W D	
R3507	NRSA63D-241X	MG RESISTOR	240Ω 1/16W D	
R3508	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R3511	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
L3501	NQR0006-001X	FERRITE BEADS		
L3502	NQL402M-100X	COIL	10uH M	

⚠ Symbol No.	Part No.	Part Name	Description	Local
L3503	NQR0006-001X	FERRITE BEADS		
L3504	NQR0006-001X	FERRITE BEADS		
L3505	NQR0006-001X	FERRITE BEADS		
CN401	QGF0508F1-40X	CONNECTOR	MAIN1(PRE) FFC/FPC (1-40)	
CN402	QGF0520F1-08X	CONNECTOR	HEAD FFC/FPC (1-8)	
CN403	QGF0505F2-06X	CONNECTOR	LOADING FFC/FPC (1-6)	
CN404	QGF0534F1-11X	CONNECTOR	DRUM FFC/FPC (1-11)	
CN405	QGF0534F1-18X	CONNECTOR	CAPSTAN FFC/FPC (1-18)	
CN406	QGF0505F2-16X	CONNECTOR	SENSOR FFC/FPC (1-16)	
CN407	QGF0508F1-06X	CONNECTOR	ROT E SW FFC/FPC (1-6)	
CN408	QGF0508F1-40X	CONNECTOR	MAIN2(MDA) FFC/FPC (1-40)	
⚠ F1601	NMFZ007-R20X-K	FUSE	1608 UNREG 0.2A 50V	
⚠ F1602	NMFZ007-R50X-K	FUSE	1608 REG3V 0.5A 50V	
SD1	LY33021-001A	SHIELD COVER(P/R)		

FRONT BOARD ASSEMBLY <06>

⚠ Symbol No.	Part No.	Part Name	Description	Local
PW1	YB10446A-01	FRONT BOARD ASSY		
Q9001	BC847PN-X	PAIR TRANSISTOR		
Q9002	BC847PN-X	PAIR TRANSISTOR		
Q9003	2SC4617/RS/-X	TRANSISTOR	ON/OFF	
D9001	NSPW500BS/CRS/	LED	LIGHTLED	
D9002	NSPW500BS/CRS/	LED	LIGHTLED	
R9001	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	
R9002	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R9003	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R9004	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	
R9005	NRSA63J-270X	MG RESISTOR	27Ω 1/16W J	
R9006	NRSA63J-270X	MG RESISTOR	27Ω 1/16W J	
R9007	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
CN9001	QGF0508F1-06X	CONNECTOR	FFC/FPC (1-6)	
SW9001	NSW0150-001X	PUSH SWITCH	EJECT	
HD1	LY33654-001A	HOLDER(LED)		
OT1	LY30031-003A	SPECIAL SCREW	HOLDER(LED)	
WR1	QUQ105-06X2AA	FFC WIRE	FRONT FFC	

C-VF BOARD ASSEMBLY <07> [S TYPE]

NOTE :

There are two types of VF(COLOR) ASSEMBLY used for this model: S type and K type.
For methods to distinguish the two types, see Cover Page.

⚠ Symbol No.	Part No.	Part Name	Description	Local
PW1	YB20941A	C-VF BOARD ASSY		
Q7001	PUMX1-W	PAIR TRANSISTOR		
Q7001 or	BC847S-X	PAIR TRANSISTOR		
D7001	E1S35AW0C501-X	LED		
C7001	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
R7001	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R7002	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	
R7003	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
CN7001	QGF0532F2-18X	CONNECTOR	FFC/FPC (1-18)	
CN7002	QGF0507F3-16X	CONNECTOR	FFC/FPC (1-16)	

C-VF BOARD ASSEMBLY <07> [K TYPE]

NOTE :

There are two types of VF(COLOR) ASSEMBLY used for this model: S type and K type.
For methods to distinguish the two types, see Cover Page.

⚠ Symbol No.	Part No.	Part Name	Description	Local
PW1	YB20965A-01	C-VF BOARD ASSY		
Q7001	PUMX1-W	PAIR TRANSISTOR		
Q7001 or	BC847S-X	PAIR TRANSISTOR		
D7001	E1S35AW0C501-X	LED		
C7004	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C7005	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
R7001	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R7002	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	
R7003	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
R7004	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R7005	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
CN7001	QGF0532F2-18X	CONNECTOR	FFC/FPC (1-18)	
CN7002	QGF0507F3-20X	CONNECTOR	FFC/FPC (1-20)	